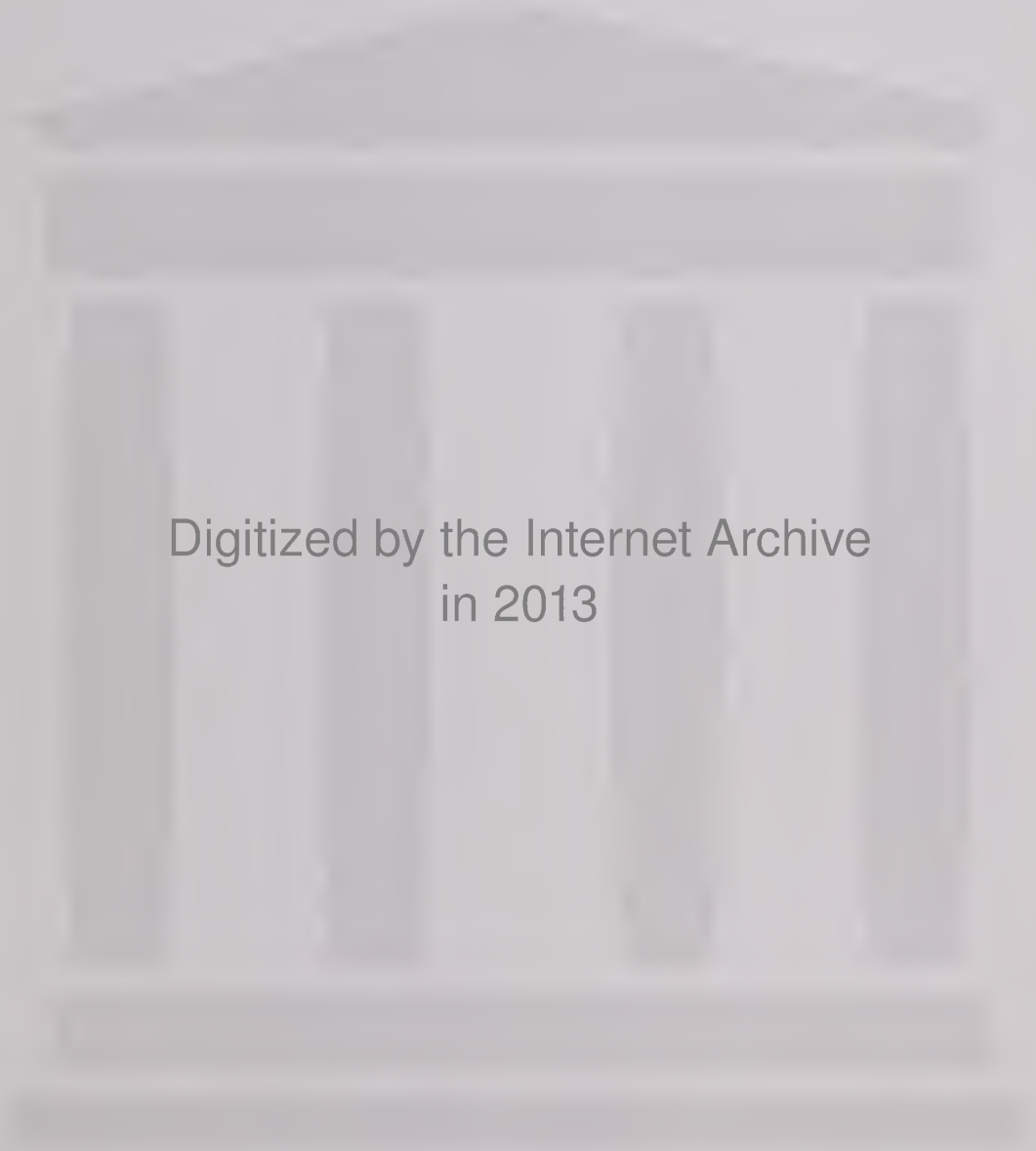








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AUG 15 1980

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



August 15, 1980

20 No. 1



CLEMSON  
UNIVERSITY

PRESIDENT

August 15, 1980

## MEMBERS OF THE CLEMSON UNIVERSITY FACULTY AND STAFF:

In order to greet each of you personally, we are having two nights in which to welcome new faculty and staff into the Clemson family. Those of you in the areas of Agricultural Sciences, Education, Engineering, Nursing, the Library, Undergraduate Studies, Graduate Studies, and Business and Finance are invited to join us in welcoming the new faculty and staff of your area into the Clemson family at our home on Thursday evening, August twenty-first, from seven-thirty to ten.

We are inviting faculty and staff in the areas of Architecture, Forest and Recreation Resources, Industrial Management and Textile Science, Liberal Arts, Sciences, Student Affairs, Development and Communications to join us in welcoming their new faculty and staff at our home on Friday evening, August twenty-second, from seven-thirty to ten.

We look forward to greeting you.

Bill and Pat Atchley

In the event of rain  
The Clemson House

## LIBRARY COMPLETES MOVE ONTO TWO NEW FLOORS

The two new floors of the library which were completed in the spring are now occupied and open for service.

The basement level houses the documents staff and contains collections of documents, maps and storage items. The lower level contains books and bound journals with call numbers ranging from M to P.

The older ground floor level now contains only those books from A to L and microforms.

The new floors provide additional study space for over 340 users and shelving for approximately 200,000 volumes.

## ACCOUNTING AND FINANCE

Thaddeus R. Bismack (Assoc Prof) has been named to serve a one-year term on the Committee on Publications of the National Association of Accountants. He was also elected vice-president of communications and public relations for the Anderson Area Chapter, NAA.

Prof. Bismack has been awarded the Certificate in Management Accounting. The certificate is a program of the National Association of Accountants to recognize professional competence in the field of management accounting. The required five-part examination and related education and experience requirements are established and administered by the Institute of Management Accounting.

## ANIMAL SCIENCE

Richard G. Godbee (Asst Prof) has received a \$16,000 grant from Merck and Company to study the safety of a new anthelmintic for horses during gestation and lactation.

Tomas Gimenez (Asst Prof) has received funds from the National Association of Animal Breeders for a grant proposal titled "Very Early Pregnancy Diagnosis

in the Cow." The grant amounts to \$11,800 over a three-year period.

## CHEMISTRY

J. W. Huffman (Prof) attended the Gordon Research Conference on Natural Products at New Hampton School, New Hampton, N.H., July 21-25, and presented a short talk, "The Reaction of Hydroxycarvone and Ethyl Vinyl Ketone--A Reinvestigation."

Prof. Huffman, W. E. Swain (former Grad Stu), J. Jacobus (Tulane Univ) and A. T. McPhail (Duke Univ) have published a paper, "Conformation of Epi-a-cyperone and Related Enones," in The Journal of Organic Chemistry, 45, 3088 (1980).

## DAIRY SCIENCE

R. Eugene Wright (Prof) was elected president-elect of the American Association of Extension Veterinarians at the annual meeting July 19 in Washington, D.C. He will serve as program chairman for the 1981 annual meeting.

## ECONOMICS

Richard McKenzie (Prof) published the following: 1) "Frustrating Business Mobility," Regulation, (May/June 1980); 2) "The Neoclassicists vs. the Austrians: A Partial Reconciliation of Competing World Views," Southern Economic Journal, (July 1980); 3) The Collectivist's Mentality, Fiscal Policy Council, (July 1980).

Prof. McKenzie also appeared on "The McNeil/Lehrer Report" (PBS) June 18.

M. T. Maloney (Assoc Prof) recently published an article with Ed Ireland (Economist, United Energy Resources, Houston, Tex) entitled "Monetary vs. Fiscal Policy: An Application of Transfer Functions" in the Journal of Econometrics.

Bruce Yandle (Prof) and Prof. Maloney recently published an article, "Bubbles and Efficiency: Cleaner Air at Lower Cost," in Regulation.

x L. Cottle (Assoc Prof and Hd) presented a paper, "The Economics of the Professional Golfers' Association," at the Western Economics Association Annual Meeting in June in San Diego, Calif., and was a discussant in the section on "Topics in Pricing Behavior."

of. Cottle also gave a speech, "The Current State of Inflation," to the Middleton district of the American Association of Retired Persons June 25.

## FERTILIZER INSPECTION AND ANALYSIS

South Carolina was the host state to the 8th annual meeting of the Association of Southern Feed, Fertilizer and Pesticide Control Officials held in Charleston June 16-19. H. V. Rogers (Hd) was president of the 14-state association and presided at the meeting. He delivered the presidential address and participated in a panel discussion on "Experiences with Quality Assistance Program for Fertilizer Blenders."

## FORESTRY

J. H. Bruner (Assoc Prof, Retired) has recently published a book, "Forestry--Will Farm Inspired," relating experiences during his early years which inspired him to become a forester and his 38 years as practicing forester.

The annual summer meeting of the South Carolina Division of the Society of American Foresters was hosted by the Clemson Student Chapter of the Society of American Foresters July 17 and 18 at Clemson. The theme of the meeting was "Research in Forestry at Clemson University" with D. D. Hook (Prof), chairman of the South Carolina division, presiding. J. E. Miller (Asst Prof), D. H. Van Lear (Prof), A. T. Shearin (Asst Prof) and J. K. Cox (For Aid) conducted a research tour of the Clemson Experimental Forest. The following individuals presented papers:

--"Forestry Research in the Department of Forestry, Clemson University," by R. M. Allen (Prof and Hd).

--"Belle W. Baruch Forest Science In-

stitute, Summary of Research Program," by Prof. Hook.

--"Clemson Experimental Forest, Management Alternatives Research Project (MARF)," by L. D. Reamer (Assoc Prof).

--"Weight Loss in Southern Pine Trees Stored With or Without Crowns," by M. A. Taras (Prof).

--"Remote Sensing and Multiphase Sampling for Forest Inventory," by G. Minick (Former Grad Stu), J. Helms (Grad Stu) and W. A. Shain (Prof).

--"Soil-Site Improvement Research," by C. L. Lane (Prof).

--"Forest Wildlife Research at the Baruch Forest Science Institute," by G. W. Wood (Prof).

## HOME ECONOMICS

Emily S. Wiggins (Asst Prof) and Joyce H. Jenkins (Assoc Prof) participated in the First Global Conference on the Future in Toronto, Canada, July 20-25. This international meeting brought together approximately 6,000 participants who explored implications for families and individuals in the coming years in such areas as energy, economics, housing, religion and education.

## HOUSING

Almeda R. Boettner (Assoc Dir) attended the national conference of the Association of College and University Housing Officials held in Toronto, Canada, July 20-24. She received an appointment to the Program Committee for the 1981 conference to be held in Boulder, Colo.

## INDUSTRIAL MANAGEMENT

Jean Woodruff (Instr) was named to Who's Who in the South and Southwest for 1980.

J. Michael McDonald (Assoc Prof) published an article, "What Is Your Absenteeism I.Q.?" in the May/June 1980 volume of Personnel. Prof. McDonald also participated as a guest lecturer in the Multimedia Corporation Management Development Program June 22-26 sponsored by the Office of Professional Development.



N. Keith Womer (Prof) chaired several sessions at the Forty-Fifth Military Operations Research Symposium June 3-5 and served on the Board of Directors of the sponsoring society. He also presented his paper, "A Cost Function for Military Airframes," at the Ninth Annual DOD/FAI Acquisition Research Symposium June 9-11. Both meetings were held in Annapolis, Md.

## INFORMATION AND PUBLIC SERVICES

Margaret Pridgen (University Science Editor) participated in a panel presentation on "Public Understanding of Science" July 7 in Detroit at the annual assembly of CASE, the Council for Advancement and Support of Education. The panel was chaired by Bob Anderson, vice president for research at the University of Georgia.

## MATHEMATICAL SCIENCES

John Kenelly (Prof) met with the Mathematical Association of America's calculus subpanel at the Massachusetts Institute of Technology July 12. The Association has received a grant from the Sloan Foundation to restructure its national curriculum recommendations into a comprehensive program in the mathematical sciences. The calculus subpanel is one of the five working groups in this effort. A total of 28 faculty members are involved in the total program.

Prof. Kenelly spent July 14 working with the 90 mathematics majors in the North Carolina Governor's School West at Salem College in Winston-Salem, and gave a lecture, "Patterns in Change--A Prelude to the Calculus." He spent July 16 with a similar group at the N.C. Governor's School East at St. Andrews College, Laurenburg, and presented the same lecture.

Douglas R. Shier (Vstg Assoc Prof), with I. H. Billick and A. S. Curran, has had a paper, "Relation of Pediatric Blood Lead Levels to Lead in Gasoline," published in Environmental Health Perspectives Vol. 34, pp. 213-217, 1980.

K. T. Wallenius (Prof) presented an invited address, "Statistical Methods in the Analysis and Negotiation of Sole Source Contracts," to the American Council of Shipbuilders in Boston July 11.

Daniel D. Warner (Assoc Prof) visited the University of Kentucky July 2-3 and gave two talks, "Convergence Regions for Hermite Interpolation" and "The Geometry of Rational Approximations." Prof. Warner attended a conference July 8-12 on Constructive Methods in Complex Analysis held at the Mathematisches Forschungsinstitut in Oberwolfach, Germany. He presented a paper on "Some Interpolation Results for Generating Functions on One-Sided Polya-Frequency Series."

Prof. Warner was a consultant at the Division of Scientific Computing, National Bureau of Standards in the Washington, D.C., area July 16-25.

## PHYSICS AND ASTRONOMY

A. L. Laskar (Prof) participated in the Gordon Research Conference on Diffusion in Solids held at Andover, N.H., July 7-11. Two papers were presented: "The Diffusion of  $Rb^+$  in AgBr and Temperature-Dependent Activation Enthalpy of Frenkel Defect Formation" co-authored by P. Cardegna (Grad Stu); "Anisotropic Ionic Transport in a Tetragonal Structure" co-authored by D. Foster and W. Mealing (Former Grad Stus).

John R. Ray and James L. Reid (Univ of Georgia) have recently published an article, "Ermakov Systems, Nonlinear Superposition, and Solutions of Nonlinear Equations of Motion," in the Journal of Mathematical Physics, Vol. 21, page 1588, July 1980 issue.

## POLITICAL SCIENCE

Michael A. Morris (Asst Prof on leave) lectured June 10 on " Militarization of the Southern Oceans" at the Department of Political Science of the University of Tampere (Finland).

Prof. Morris also spoke to professors and students at a joint session of the Tampere Peace Research Institute and the University of Tampere.

Prof. Morris lectured at an international seminar at the University of Bordeaux, France, on "Le Droit et la Pratique dans Les Deux Amériques," April 9-11. He was one of 10 invited lecturers for the seminar, the proceedings of which will be published.

#### PROFESSIONAL DEVELOPMENT

Kathryn S. Collins (Admin Asst) lectured at the NUEA Region III Institute for Continuing Education on "Brochures from Start to Finish," July 17 and 18 at Memphis State University, Memphis, Tenn.

J. Michael McDonald (Assoc Prof, IM) is the lecturer for a one-day seminar, "Professional Development for Secretaries," to be held Sept. 8 at the Radisson Plaza in Charlotte, N.C.

Claude S. Simpson Jr. (Instr, IM and Asst Dir, PD) is chairperson for the following on-campus seminars: 1) "Effective Production Planning and Control Inventory Management," Sept. 9-10; 2) "Increasing Purchasing's Effectiveness," Sept. 11-12; 3) "From Secretary to Administrative Assistant," Sept. 15.

John J. Porter (Prof, Text) is co-chairperson for a three-day course, "Troubleshooting in Dyeing and Finishing," to be held Sept. 9-11 on campus.

#### RECREATION AND PARK ADMINISTRATION

Brian J. Mihalik (Asst Prof) made a presentation July 23 at the Charleston County Community Education Program Summer Seminar on Community Education and Recreation. He spoke on "The History and Philosophy of Recreation" and "The Recreation and Community Education Interface."

Larry Gahan (Prof) spoke July 23 at the Charleston County Community Education Program Summer Seminar on Community Education and Recreation. His topics included "Organizing a Community Advisory Council" and "Sustaining a Community Advisory Council."

## NEW FACULTY AND STAFF, 1980-81

The following members of the faculty and staff joined the University between August 15, 1979, and August 15, 1980.

College of Agricultural Sciences

Aneja, Rajindra, Professor of Food Science; B.S., M.S., Ph.D., University of Delhi, Delhi, India; Apartment 3-D, Palmetto Boulevard

Baum, Robert H., Visiting Assistant Professor of Plant Pathology and Physiology; B.A., Goddard College; M.S., Ph.D., University of Florida; 110 Meadow Drive, Seneca 29678

Blackburn, Mary E., Assistant Professor of Home Economics; B.S., East Tennessee State University; M.Ed., University of Georgia; Ph.D., University of North Carolina at Greensboro; 37-D Daniel Drive

Brown, Richard B., Assistant Chemist in Agricultural Chemical Services and Lecturer in Food Science; B.S., St. Francis College; M.S., Old Dominion University; Route 3, Box 204, Central 29630

Cody, Mildred M., Extension Nutrition Specialist and Assistant Professor of Home Economics; B.S., M.S., University of Georgia; Ph.D., Rutgers University; Hanover Hills, Seneca 29678

Diehl, John R., Associate Professor of Animal Science; B.S., Kansas State University; Ph.D., University of Missouri; 154 P&AS Building

Fountain, Edmund L., Veterinarian I, Livestock-Poultry Health Department; D.V.M., Cornell University; 717 Formby Drive, Columbia 29204

Gentry, Caron W., Pesticide Regulatory Specialist, Plant Pest Regulatory Service; B.S., Clemson University; Walterboro 29488

Glinski, Raymant L., Jr., Chemist II, Agricultural Chemical Services; B.S., University of South Carolina; 131 Cochran Road

Hammig, Michael D., Assistant Professor of Agricultural Economics and Rural Sociology; B.A., University of Kansas; Ph.D., Washington State University; Route 6, Box 548, Seneca 29678

Hodges, Barbara L., State 4-H and Youth Development Coordinator and Assistant Professor of Home Economics; B.S., South Carolina State College; M.Ed., Clemson University; 232 P&AS Building

Houston, Elizabeth C., Assistant Professor of Home Economics; B.S., Limestone College; M.S., Winthrop College

James, Romando, State 4-H and Youth Development Coordinator and Associate Professor of Agricultural Education; B.S., Florida A&M University; M.A., Jersey City State College; 232 P&AS Building

Jamison, Theora I., Veterinarian I, Livestock-Poultry Health Department; D.V.M., Tuskegee Institute; 107 Staley Drive, Spartanburg 29301



## NEW FACULTY AND STAFF (Cont.)

College of Agricultural Sciences (Continued)

Linville, Dale E., Associate Professor of Agricultural Engineering; B.S., Ph.D., Purdue University; M.S., University of Connecticut

McBee, Norwood M., Chemist I, Agricultural Chemical Services; B.S., The Citadel; University Apartments

Merrell, Myra B., Chemist I, Agricultural Chemical Services; B.S., University of South Carolina; Royal Acres Mobile Park, Seneca 29678

Mullen, Robert E., Visiting Instructor in Agricultural Economics and Rural Sociology; B.S., M.S.W., M.S., Louisiana State University; 101 Timber Ridge Lane, Seneca 29678

Mullen, Stephen R., State 4-H and Youth Development Coordinator and Assistant Professor of Agricultural Education; B.A., University of Massachusetts; M.S., Ph.D., Ohio State University; 232 P&AS Building

Olson, Larry W., Assistant Professor of Animal Science; B.S., Oklahoma State University; M.S., Ph.D., University of Nebraska; Edisto Experiment Station, Box 247, Blackville 29817

Payne, Frederick A., Assistant Professor of Agricultural Engineering; B.S., M.S., University of Kentucky

Ridings, William H., Associate Professor of Plant Pathology and Physiology; B.S., M.S., West Virginia University; Ph.D., North Carolina State University; Route 2, Box 468, Seneca 29678

Shipe, Emerson R., Assistant Professor of Agronomy and Soils; B.S., University of Tennessee; M.S., Western Kentucky University; Ph.D., Virginia Polytechnic Institute and State University; Keowee Apartments, Seneca 29678

Spitzer, John C., Associate Professor of Animal Science; B.S., M.S., Ph.D., Colorado State University; 154 P&AS Building

Stokes, Kenneth W., Assistant Professor of Agricultural Economics and Rural Sociology; B.S., M.S., Texas Tech University; 103 Augusta Road

Suarez, Eva L., Instructor in Experimental Statistics; B.S., University of Puerto Rico; 49-L Morrison Road

Swicegood, Myrle L., State Leader, Extension Home Economics Programs and Professor of Home Economics; B.S., Ph.D., University of North Carolina at Greensboro; M.S., North Carolina State University; #12 Foy Creek Townhouses, Earle Street

Ulmer, Susan E., Assistant Professor of Agronomy and Soils; B.S., M.S., University of Alabama; Ph.D., Iowa State University; 9 Cedar Creek, Central 29630

Vines, Dwight T., Associate Professor of Dairy Science; B.S., M.S., University of Arkansas; Ph.D., Michigan State University; Isaqueena Trail Apartments

Wolak, Francis J., Assistant Professor of Agricultural Engineering; B.S., Michigan State University; 330 Stoney Creek Drive

## NEW FACULTY AND STAFF (Cont.)

College of Architecture

Killingsworth, Edgar L., Assistant Professor of Architecture; B.Arch., University of Oklahoma; M.Arch., University of Michigan

Kishimoto, Yuji, Associate Professor of Architecture; B.Arch., Waseda University, Tokyo; M.Arch., Harvard University; M.Ed., University of Massachusetts

College of Education

Derr, Alice M., Assistant Professor of Education; B.A., College of William and Mary; M.Ed., University of Virginia; #2 North Clemson Townhouse

Graber, Gary J., Captain, U.S. Army, Assistant Professor of Military Science; B.S., Oregon State University; Route 1, Laurel Den, Six Mile 29682

Isbell, Clinton H., Instructor in Industrial Education; B.A., M.Ed., Sam Houston State University; Ed.D., Texas A&M University; 31-B Bradley Street

Jenkins, Robert E., Associate Professor of Education; B.S., Auburn University; M.Ed., Emory University; Ed.D., University of Florida; 318 Woodland Way

Moore, Cynthia E., Instructor in Education; B.A., Clemson University; Isaqueena Village Apartments

Stanley, James G., Jr., Captain, U.S. Army, Assistant Professor of Military Science; B.S., Arkansas Polytechnic College

Vinson, Kenneth N., Visiting Assistant Professor of Industrial Education; B.S., M.InEd., Clemson University; 216-E Calhoun Street

College of Engineering

Akkas, Nuri, Visiting Associate Professor of Mechanical Engineering; B.S., Robert College, Istanbul; M.S., Ph.D., Clemson University

Almaula, Haren, Research Associate, Electrical and Computer Engineering; B.Tech., Indian Institute of Technology, Kharagpur, West Bengal, India; Ph.D., Clemson University

Baxa, Ernest G., Jr., Associate Professor of Electrical and Computer Engineering; B.E.E., University of Virginia; M.S., Ph.D., Duke University

Figliola, Richard S., Assistant Professor of Mechanical Engineering; B.S., M.S., Ph.D., University of Notre Dame

Fjeld, Robert A., Associate Professor of Environmental Systems Engineering; B.S., North Carolina State University; M.S., Ph.D., The Pennsylvania State University

Gooding, Charles H., Assistant Professor of Chemical Engineering; B.S., M.S., Clemson University; Ph.D., North Carolina State University

Haley, Stephen B., Associate Professor of Electrical and Computer Engineering; B.A., University of Florida; Ph.D., Florida State University

## NEW FACULTY AND STAFF (Cont.)

College of Engineering (Continued)

Leathrum, James F., Professor of Electrical and Computer Engineering; B.A., University of Florida; Ph.D., Florida State University

McCarty, Vickie L., Research Associate, Chemical Engineering; B.S., North Texas State University

Newhouse, Dorothy A., Research Associate, Electrical and Computer Engineering; B.S., Clemson University

Powers, Dennis L., Research Associate, Interdisciplinary Studies; A.A., B.A., Rochester State Junior College; B.S., D.V.M., University of Minnesota

Rice, Thomas W., Research Associate, Electrical and Computer Engineering; A.A., Emmanuel College; B.S., Eastern New Mexico University

Roberds, Richard M., Associate Professor and Head of Engineering Technology; A.B., M.A., University of Kansas; Ph.D., Air Force Institute of Technology

Spragins, John D., Professor of Electrical and Computer Engineering; B.S., Oklahoma State University; M.S., Ph.D., Stanford University

Yang, Tsute, Visiting Professor of Electrical and Computer Engineering; B.S., Chiao Tung University, Shanghai; M.S., Harvard University; Ph.D., University of Pennsylvania

College of Forest and Recreation Resources

Askew, George R., Assistant Professor of Forestry; B.S., M.S., Clemson University; 1527 Oak Street, Georgetown 29440

Guynn, David C., Jr., Associate Professor of Forestry; B.S., M.S., Ph.D., Virginia Polytechnic Institute; 260 Lehotsky Hall

Harris, Robert A., Assistant Professor of Forestry; B.S., M.S., Clemson University; Ph.D., Virginia Polytechnic Institute and State University; 207 Edgewood Avenue

Mihalik, Brian J., Assistant Professor of Recreation and Park Administration; B.S., M.S., Syracuse University; 120 Keowee Trail

Richens, Voit B., Adjunct Associate Professor of Forest and Recreation Resources; B.S., Washington State University; M.S., Ph.D., Utah State University; Route 4, Box 244-A Springfield, Anderson 29621

Zahner, Robert, Professor of Forestry; B.S., M.F., Ph.D., Duke University; P.O. Box 263, Highlands, North Carolina 28741

College of Industrial Management and Textile Science

Czajkowski, Anthony F., Associate Professor of Industrial Management; B.E.E., Manhattan College; M.S., Ph.D., Arizona State University

## NEW FACULTY AND STAFF (Cont.)

College of Industrial Management and Textile Science (Continued)

Gidel, Julie K., Lecturer in Industrial Management; B.S., University of Illinois; MBA, University of Michigan

Kauder, William F., Jr., Assistant Professor of Accounting and Finance; B.S., Georgia Tech; MBA, Tulane University

Orander, Ansel D., Jr., Lecturer in Industrial Management; B.S., Clemson University; J.D., University of South Carolina

Ramsay, Louis P., Associate Professor of Accounting; B.S., University of California at Berkeley; M.S., San Jose State; DBA, Kent State University

Stahl, Michael, Associate Professor of Industrial Management; B.S., State University of New York at Buffalo; M.S., Air Force Institute of Technology; Ph.D., Rensselaer Polytechnic Institute

Wallace, Myles S., Assistant Professor of Economics; B.S., M.A., Ph.D., University of Colorado

Warner, John T., Assistant Professor of Economics; B.A., Wake Forest University; M.E., Ph.D., North Carolina State University

College of Liberal Arts

Charney, Mark J., Instructor in English; B.A., Clemson University; M.A., University of New Orleans

Dezen, Jeffrey L., Instructor in English; B.A., Dickinson College; M.A., Pennsylvania State University; 19-B Daniel Drive

Dover, Ernest A., Jr., Instructor in Political Science; B.A., Winston-Salem State University; M.A., Kent State University

Hall, Barbara J., Instructor in English; B.S., East Carolina University; M.A., Wake Forest University; 104 Maria Lane, Seneca 29678

Inge, M. Thomas, Head of Department and Professor of English; B.A., Randolph-Macon College; M.A., Ph.D., Vanderbilt University; Stony Creek Road

Journet, Debra S., Assistant Professor of English; B.A., Newcomb College of Tulane University; Ph.D., McGill University

Miller, James A., Assistant Professor of Geography; B.A., State University of New York at Binghamton; M.A., University of Texas at Austin

Moore, D. DeWayne, Visiting Assistant Professor of Psychology; B.A., North Texas State University; M.A., Ph.D., Michigan State University

Moran, Michael G., Assistant Professor of English; B.A., City College of New York; M.A., Ph.D., University of New Mexico; 107 Riggs Drive



NEW FACULTY AND STAFF (Cont.)

College of Liberal Arts (Continued)

Plecki, Gerard D., Visiting Assistant Professor of English; B.A., B.S., M.A., and Ph.D., University of Illinois at Urbana

Ross, Robert L., Visiting Assistant Professor of English; B.A., University of Oregon; M.A., Texas Christian University; Ph.D., The University of Texas at Arlington-Dallas

Straub, Richard E., Instructor in English; B.A., University of Miami; M.A., Clemson University; P. O. Box 756, Central 29630

Varkonda-Bishop, Linda K., Visiting Assistant Professor of History; B.A., M.A., Ohio University; Ph.D., Florida State University; Prater's Creek Road, Six Mile 29682

Williamson, Judith L., Instructor in English; B.A., Presbyterian College; M.A., Clemson University; 110-A Cochran Road

College of Nursing

Gibbs, Helen M., Assistant Professor of Nursing, Associate Degree Program; B.S.N., Adelphi College; M.S.N., Medical College of Georgia in Augusta

Oglesby, F. Madelynn, Director of Graduate Program and Associate Professor of Nursing; B.S.N.E., Florida State University; M.S., University of Maryland; Ph.D., University of Delaware

College of Sciences

Bennett, Dennis W., Assistant Professor of Chemistry; B.S., Ph.D., University of Utah

Buzas, Martin A., Adjunct Professor of Zoology; B.A., University of Connecticut; M.Sc., Brown University; Ph.D., Yale University

Dill, Kilian, Assistant Professor of Chemistry

Heckel, David G., Assistant Professor of Zoology; B.A., University of Rochester

Hughes, Juliana, Visiting Instructor in Computer Science; B.A., M.A., Winthrop College

Macon, Nathaniel, Visiting Professor of Mathematical Sciences; B.A., M.A., Ph.D., University of North Carolina

Mihalik, Linda L., Instructor in Computer Science; B.A., State University of New York; M.A., Temple University

Petersen, John D., Assistant Professor of Chemistry; B.S., California State University at Los Angeles; Ph.D., University of California at Santa Barbara

Sherman, Gary J., Adjunct Professor of Mathematical Sciences; B.S., M.S., Bowling Green State University; Ph.D., Indiana University

Shier, Douglas R., Associate Professor of Mathematical Sciences; A.B., Harvard College; Ph.D., London School of Economics



## NEW FACULTY AND STAFF (Cont.)

College of Sciences (Continued)

Soundararajan, R., Visiting Instructor in Chemistry; B.S., M.S., Madras University in India; Ph.D., Indian Institute of Science in Bangalore

Stevenson, Dennis E., Lecturer in Computer Science; B.A., Eastern Michigan University; M.S., Rutgers University

Straight, H. Joseph, Visiting Assistant Professor of Mathematical Sciences; B.S., S.U.N.Y. - College at Fredonia; M.A., Ph.D., Western Michigan University

Surzur, Jean M., Visiting Professor of Chemistry

Warner, Richard D., Assistant Professor of Geology

The Robert Muldrow Cooper Library

Harris, Maureen T., Librarian in Charge, Social Science and Humanities; B.A., University of Kansas; M.L.S., University of Texas at Austin

Johnson, Steven D., Librarian in Charge, Acquisitions/Monographs; B.A., Georgetown University; M.L.S., Rutgers University

Graduate Studies and University Research

## Administrative Programming Services:

Dickinson, Howard W., Systems Analyst II; B.A., University of Virginia

Edie, Margaret H., Data Coordinator III; B.F.A., Ohio University

Liang, Yeu-Hsiung F., Computer Programmer III; M.S., Clemson University

Lofton, Kathy L., Computer Programmer III; B.S., Clemson University

Machnik, Stephen J., Computer Programmer III; B.S., Clemson University

Rogainis, Janis, Computer Programmer III; B.A., Western Washington State University; M.A., Ph.D., Indiana University

## Computer Center:

Davis, Jeffrey L., Office Service Aid

Ryman, R. Meshelle, Secretary I; Associate Degree, Secretarial Science, University of South Carolina

Department of Information and Public Services

Lollis, Thomas W., Area News Editor I, Edisto Experiment Station; B.A., University of South Carolina; 1108 Hyrick Avenue, Barnwell 29812

Stauder, Kathleen, Information Specialist II; Experiment Station; B.J., University of Missouri; 2006-C Edgewood, Anderson 29621

NEW FACULTY AND STAFF (Cont.)

Office for Business and Finance

Anderson, Leland E., Jr., Supervisor of Grounds and Special Services; B.S., Clemson University; M.Ed., Master of Landscape Architecture, University of Georgia

Brown, John R., Director of the Continuing Education Center, Clemson House

Kellett, John N., Buyer, Purchasing

Office for Student Affairs

Gardner, Verna G., Area Coordinator, Housing; B.A., Clemson University; M.A.Ed., Wake Forest University

Harris, Allison B., Admissions Counselor, Undergraduate Admissions; B.A., Clemson University

Haislett, Judith E., Psychologist, Counseling Center; B.A., M.A., University of Delaware; Ph.D., University of Virginia

Johnson, Robert A., Academic Adviser, Student Affairs; B.S., Clemson University; M.A., Furman University

Orgel, Frank, Assistant Football Coach, Athletics; B.S., University of Georgia

Paschal, Linda T., Assistant Dean of Student Life, Student Affairs; B.S., Auburn University; M.Ed., University of Georgia

Sanders, Angelia K., Admissions Counselor, Undergraduate Admissions; B.S., Clemson University

Stokley, Nelson R., Assistant Football Coach, Athletics; B.S., Louisiana State University

President's Office

Byars, Edward F., Executive Assistant to the President; BME, MCE, Clemson University; Ph.D., University of Illinois; 4 Riverpoint Villas

Office of Provost and Vice President for Academic Affairs

Maxwell, W. David, Provost and Vice President for Academic Affairs and Professor of Economics; A.B., M.A., University of North Carolina; Ph.D., Johns Hopkins University; 201 Martin Street

College of Agricultural Sciences

Black, Albert P., Ag. Science Associate II (Dairy Plant Manager), Dairy Science Department; B.S., Clemson University; P. O. Box 422, Sandy Springs 29677

DuBose, William P. III, Visiting Assistant Professor of Entomology and Economic Zoology; B.S., Clemson University; M.S., Ph.D., North Carolina State University; 335 Woodland Way

Friedlander, Michael, Alumni Visiting Professor of Entomology and Economic Zoology M.Sc., Ph.D., Hebrew University, Jerusalem; 34-B Daniel Drive

College of Nursing

Brown, Elizabeth B., Visiting Associate Professor in the Graduate Program; B.S., University of Texas; M.S.N., Texas Women's University

## Calendar of Campus Events

## AUGUST 1980

- 15 -- Orientation for new faculty and staff, P&AS Auditorium, 7:45 a.m.
- 17 -- Residence halls open at 10 a.m.
- 17-24 -- Sorority Rush. Sponsored by Panhellenic Council, call 656-2153 for more information.
- 18-24 -- Videotape: "Steve Martin." Sponsored by University Union, loggia, shown on request.
- 18-9/5-- Sign up for bowling league, Union Information Desk, 8 a.m. - 4:30 p.m.
- 18 -- Game rooms open, University Union.
- 18 -- General faculty and staff meeting, Littlejohn Coliseum, 10:30 a.m. Individual college orientations will be held before and after the meeting.
- 20 -- Outdoor Dance: Music by Windjammer. Sponsored by University Union, Union Plaza, 8 p.m.
- 20 -- Registration for fall semester 1980.
- 21 -- Outdoor Movie: "Billy Jack." Sponsored by University Union, Union Plaza, 9 p.m.
- 21 -- Comedy Show: Fun and games by "Playfair." Sponsored by University Union, loggia, 2 p.m., no admission charge.
- 21-22 -- President's Reception, President's Home, 7:30 - 10 p.m. each night.  
(21) Agricultural Sciences, Education, Engineering, Nursing, Library, Undergraduate Studies, Graduate Studies, and Business and Finance.  
(22) Architecture, Forest and Recreation Resources, Industrial Management and Textile Science, Liberal Arts, Sciences, Student Affairs, Development. and Communications.
- 22 -- College Bowl exhibition match between faculty and students. Sponsored by University Union, loggia, noon.
- 22-23 -- Musical Performance: "Pretty Good for Girls." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required. \$1 admission charge.
- 22-24 -- Workshop: "Wellness Workshop and Retreat." Sponsored by College of Nursing, Department of Continuing Education. Open to registered nurses and other health care professionals with at least a baccalaureate degree. \$100 registration fee. Call 656-3078 for more information.
- 22 -- Classes begin on regular schedule.

## CALENDAR OF CAMPUS EVENTS (continued)

- 23 -- Free Concert: John Hammond. Sponsored by University Union, East Bank, 2-6 p.m. University I.D. and proof of age required.
- 24-25 -- Auditions: Ah, Wilderness! by Eugene O'Neill. Clemson Players' production, Daniel Auditorium, 7:30 p.m. Open to all students.
- 24 -- Free Flick: "The Goodbye Girl." Sponsored by University Union, YMCA Theater, 8 p.m.
- 24 -- Tubing trip down the Chatooga. Details and sign up at Union Information Desk.
- 25-31 -- Videotape: "Meatloaf and Journey." Sponsored by University Union, loggia, shown on request.
- 25 -- Clemson University Union Travel Center opens.
- 25 -- Sign up for University Union spring break cruise beginning today at the Union Information Desk.
- 25-26 -- Gallery Display: Slides of last spring break cruise. Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Open to the public, no admission charge.
- 26 -- Mime Show. Sponsored by University Union, Union Plaza, noon.
- 26 -- Pool Tournament. Sponsored by University Union, Game Room, 8 p.m.
- 27 -- Placement orientation for seniors and graduate students in the College of Architecture. Sponsored by Placement Office, 100 Lee Hall, 4 p.m.
- 27-29 -- Art Exhibition: "Short Course Art Display." Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Open to the public, no admission charge.
- 27 -- Dedication of Alumni Video Theatre. President Atchley will officially dedicate the University Union's new video theatre donated by the Alumni Association, loggia, noon.
- 27 -- Disco Roller Skating Party. Sponsored by University Union, Palmetto Room of Union, 8 p.m. - midnight. University I.D. required, skates provided for students.
- 28 -- Musical Performance: Elaine Silver. Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required, 50¢ donation. She will also appear at noon in the Union Plaza.
- 28-29 -- Art Exhibition: "Stained Glass Exhibition and Sale." Sponsored by University Union, Union Gallery, 11 a.m. - 2 p.m. Open to the public, no admission charge.
- 29-30 -- Musical Performance: Dick Child's Guitar Army. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required. \$1 admission charge.



## CALENDAR OF CAMPUS EVENTS (continued)

- 30 -- Trip to Sliding Rock. Details and sign up at Union Information Desk.
- 31 -- Free Flick: "Walking Tall." Sponsored by University Union, YMCA Theater, 8 p.m.

## SEPTEMBER 1980

- 1 -- Placement orientation for seniors and graduate students in the College of Industrial Management and Textile Science. Sponsored by Placement Office, Earle Hall Auditorium, 4:30 p.m.
- 1-7 -- Videotape: "Guinness World Book of Records." Sponsored by University Union, loggia, shown on request.
- 2 -- Placement orientation for seniors and graduate students in the College of Forest and Recreation Resources. Sponsored by Placement Office, 113 Lehotsky Hall, 3:30 p.m.
- 2 -- Cruise social for students interested in going on the Union's spring break cruise, Student Government Senate Chambers, 7 p.m.
- 2-4 -- Art Exhibition: "Spinning and Weaving Display." Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Open to the public, no admission charge.
- 3 -- Placement orientation for seniors and graduate students in the College of Engineering, 100 Lowry Hall, 4:45 p.m.; College of Agricultural Sciences, P&AS Auditorium, 7 p.m. Sponsored by Placement Office.
- 3 -- English Hour Lecture: "How to Co-Author a Book on James Dickey" by Richard J. Calhoun and Robert W. Hill. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.
- 4 -- Musical Performance: Southern Select. Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required, 50¢ donation.
- 5 -- Concert: United States Army Forces Command Band. Sponsored by University Union, Amphitheater, 7:30 p.m. If rain: Jervey Athletic Center. Open to the public, no admission charge.
- 5-6 -- Musical Performance: Intersection. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, \$1 admission charge.
- 6 -- Sailing Clinic. Details and sign up at Union Information Desk.
- 7 -- Free Flick: "Summer of 42." Sponsored by University Union, YMCA Theater, 8 p.m.
- 7 -- Soccer: Old Dominion, here, 2 p.m.
- 8 -- Placement orientation for seniors and graduate students in the College of Liberal Arts. Sponsored by Placement Office, Daniel Auditorium, 4 p.m.

## CALENDAR OF CAMPUS EVENTS (continued)

- 8-12,-- Senior Adventure Camp. Administered by Recreation and Park Administration Department. Open to any elderly South Carolinian, \$60 per participant. Call 656-2477 for more information.
- 8-14 -- Videotape: "Clemson Football Highlights." Sponsored by University Union, loggia, shown on request.
- 8-19 -- Room change period, submit application to Housing Office.
- 8-13 -- Instant Photo Sale. Bring in a negative or photograph and have your picture blown up to poster size. Sponsored by University Union, Union Gallery. Check Information Desk for prices and times.
- 9 -- Concert: Lillian Harder, piano, and Martha Hamilton, flute. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 9 -- Placement orientation for seniors and graduate students in the College of Sciences. Sponsored by Placement Office, 101 Kinard Laboratory, 4:30 p.m.
- 9 -- Auditions for Gutter Coffeehouse entertainment, the Gutter, 7:30 - 11 p.m.
- 11 -- Musical Performance: Robin and Linda Williams. Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required, 50¢ donation.
- 12-13 -- Musical Performance: John Bayley. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, \$1 admission charge.
- 13 -- Football: Rice (IPTAY Day), here, 1 p.m.
- 14 -- Free Flick: "You Light Up My Life." Sponsored by University Union, YMCA Theater, 8 p.m.
- 14-10/3-- Short Course: "Professional Development for Outdoor Recreation Management." Co-sponsored by Recreation and Park Administration Department and U.S. Forest Service. Call 656-3400 for more information.
- 15-21 -- Videotape: "I Want It All Now." Sponsored by University Union, loggia, shown on request.
- 15 -- Short Courses: "Quiltmaking" and "Clogging" begin. Details and sign up at Union Information Desk.
- 15-20 -- Art Exhibition: "Clemson Courtyard" by Tom Tyler. Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Open to the public, no admission charge.
- 16 -- Short Course: "Beginning Bridge" begins. Details and sign up at Union Information Desk.

## CALENDAR OF CAMPUS EVENTS (continued)

- 17-18 -- Cooperative Education Career Day. Approximately 30 Southeastern companies will send representatives to talk with students about cooperative education, intern, and full-time placement opportunities. Sponsored by Cooperative Education Office and College of Engineering, Palmetto Room of Union, 9:30 a.m. - 4 p.m. Open to all students, no charge.
- 17 -- Short Courses: "Dungeons and Dragons" and "Practical Economics" begin. Details and sign up at Union Information Desk.
- 17 -- Soccer: Georgia State, here, 3:30 p.m.
- 18 -- Short Course: "Yoga" begins. Details and sign up at Union Information Desk.
- 18 -- Poetry Readings. Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required, 50¢ donation.
- 19-20 -- Musical Performance: Kier Irmiter. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, \$1 admission charge.
- 21 -- Rugby: Greenville Rugby Club, here, 2 p.m.
- 21 -- Free Flick: "Cat on a Hot Tin Roof." Sponsored by University Union, YMCA Theater, 8 p.m.
- 21 -- Soccer: N.C. State, here, 2 p.m.
- 22 -- Lecture: "Family Focused Care" by Prof. Jean Miller of State University of New York College at Brockport. Sponsored by College of Nursing Fine Arts Committee, Daniel Auditorium, 2-4 p.m. Open to the public, no admission charge.
- 22 -- French Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 22-28 -- Videotape: "May the Farce be with You." Sponsored by University Union, loggia, shown on request.
- 22-27 -- Art Exhibition: "Pencil Artwork" by Steve Freeman. Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Open to the public, no admission charge.
- 23 -- Short Courses: "Ballroom Dancing," "Sign Language" and "Disco Dancing" begin. Details and sign up at Union Information Desk.
- 25 -- Short Course: "Hang Gliding" begins. Details and sign up at Union Information Desk.
- 26 -- Department of Accounting and Finance picnic for majors interested in meeting representatives of firms which will be interviewing this year. Call 656-3265 for more information and to sign up.

## CALENDAR OF CAMPUS EVENTS (continued)

- 26 -- Beach Party: Music by Tumbleweed. Sponsored by University Union, East Beach, 2-6 p.m. University I.D. required, no admission charge.
- 26-27 -- Musical Performance: Marty Baer. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required.
- 27 -- Football: Western Carolina, here, 1 p.m.
- 28 -- Rugby: Atlanta Old White, here, 2 p.m.
- 28 -- Free Flick: "Highballin." Sponsored by University Union, YMCA Theater, 8 p.m.
- 29-10/4-- Drama: Ah, Wilderness! by Eugene O'Neill. Clemson Players' production, Daniel Auditorium. Monday - Wednesday and Friday - Saturday, 8 p.m.; Thursday, 3:30 p.m. Open to the public, free with University I.D., \$1 admission charge without I.D.
- 29-10/5-- Videotape: "Hollywood: The Dream Factory." Sponsored by University Union, loggia, shown on request.
- 30 -- Concert: Atlanta Symphony Orchestra. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season ticket, or individual tickets on sale at Gate 5.

## OCTOBER 1980

- 1 -- English Hour Lecture: Prof. Donald G. Bzdyl. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.
- 2 -- Musical Performance: Bobby Daye. Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required, 50¢ donation.
- 3 -- Soccer: Cleveland State vs. Alabama A&M, 1:30 p.m.; Clemson vs. Appalachian State, 3:30 p.m., here.
- 4 -- Football: Virginia Tech (Homecoming), here, 1 p.m.
- 5-6 -- Auditions: Play to be announced. Clemson Players' production, Daniel Auditorium, 7:30 p.m. Open to all students.
- 5 -- Free Flick: "Brian's Song." Sponsored by University Union, YMCA Theater, 8 p.m.
- 5 -- Bike trip to Blue Ridge Parkway. Details and sign up at Union Information Desk.
- 5 -- Soccer: Consolation Championship, here, 1 and 3 p.m.
- 6-12 -- Videotape: "Bread." Sponsored by University Union, loggia, shown on request.

## CALENDAR OF CAMPUS EVENTS (continued)

- 6 -- Short Course: "CPR" begins. Details and sign up at Union Information Desk.
- 8 -- Soccer: Berry College, here, 3:30 p.m.
- 8-9 -- Workshop: "Industrial Treatment." Sponsored by Water and Wastewater Operator Training Program, call 656-3276 for more information.
- 9 -- Short Course: "Spinning" begins. Details and sign up at Union Information Desk.
- 11 -- Rugby: Atlanta Renegade, here, 2 p.m.
- 11 -- Overnight canoe trip. Details and sign up at Union Information Desk.
- 12 -- Free Flick: "The Twelve Chairs." Sponsored by University Union, YMCA Theater, 8 p.m.
- 13-19 -- Videotape: "Great Moments in Sports." Sponsored by University Union, loggia, shown on request.
- 13 -- Spanish Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 14 -- Concert: Philip Jenkins, tenor, in a voice recital accompanied by Darr Wise. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 16-21 -- Spanish Play. Presented by Languages Department students, Daniel Auditorium, 6-10:30 p.m. Open to the public, no admission charge.
- 17-18 -- Musical Performance: Spherris & Voudouris. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, \$1 admission charge.
- 17 -- Beer Garden: Mike Williams. Sponsored by University Union, East Bank. University I.D. and proof of age required. Details at Union Information Desk.
- 18 -- Football: Duke (Parents' Day), here, 1 p.m.
- 19 -- Rugby: Columbus (Ga.) Fliers, here, 2 p.m.
- 19 -- Free Flick: "Jeremiah Johnson." Sponsored by University Union, YMCA Theater, 8 p.m.
- 19 -- Soccer: North Carolina, here, 2 p.m.
- 20 -- Short Course: "First Aid" begins. Details and sign up at Union Information Desk.
- 20-26 -- Videotape: "Janus Ian." Sponsored by University Union, loggia, shown on request.
- 22 -- Short Course: "Couple Communication" begins. Details and sign up at Union Information Desk.



## CALENDAR OF CAMPUS EVENTS (continued)

- 23 -- Performing Artist Series: Alabama Shakespeare Festival presents "Two Gentlemen of Verona," a classic comedy about love and friendship. Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public. Tickets may be purchased from the Union Program Office on the loggia or at the door, \$8.50 for the entire series, \$2 for a single performance.
- 23-25 -- Thirtieth Annual Mountain Interstate Foreign Language Conference. Call 656-3393 for more information.
- 25 -- Short Course: "Basketry" begins. Details and sign up at Union Information Desk.
- 25 -- Trip to Biltmore House and Gardens. Details and sign up at Union Information Desk.
- 26 -- Free Flick: "Vanishing Point." Sponsored by University Union, YMCA Theater, 8 p.m.
- 27 -- Intramural Debate Tournament Finals. Co-sponsored by Clemson Forensic Union, Calhoun Forensic Society and Department of English, Daniel Auditorium, 7:30 - 8:30 p.m. Open to the public, no admission charge.
- 27-11/2-- Videotape: "Night of the Living Dead." Sponsored by University Union, loggia, shown on request.
- 30 -- Concert: Scottish Chamber Orchestra with violin soloist Jaime Laredo. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season ticket or individual tickets on sale at Gate 5.
- 30 -- Soccer: Erskine College, here, 3:30 p.m.
- 31 -- Costume Contest. Co-sponsored by ARA and University Union, details at Union Information Desk.
- 31 -- Film Special: "Dracula Nosferatu" and "Burnt Offering." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required. Admission charge to be announced.

## NOVEMBER 1980

- 1 -- Engineer-In-Training Examination, Part I. Sponsored by College of Engineering, 226 Riggs Hall, 7:30 a.m. - 5 p.m. Open to senior students in the professional engineering curricula who have been approved to take the exam.
- 1 -- Children's Literature Symposium. British children's writer Nina Bawden and 1979 Caldecott Medalist Peter Spier will be special guests. Co-sponsored by Department of English and College of Liberal Arts, Daniel Hall, 8:30 a.m. - 3 p.m. Open to adults working with children or with an interest in children's literature, \$5 registration fee.

## CALENDAR OF CAMPUS EVENTS (continued)

- 2 -- Free Flick: "White Line Fever." Sponsored by University Union, YMCA Theater, 8 p.m.
- 2 -- Soccer: University of Maryland, here, 2 p.m.
- 3-8 -- Drama: To be announced. Clemson Players' production, Daniel Auditorium. Monday - Wednesday and Friday - Saturday, 8 p.m.; Thursday, 3:30 p.m. Open to the public, free with University I.D., \$1 admission charge without I.D.
- 4 -- Election Day, classes suspended.
- 5 -- English Hour Reading: A poetry reading by Prof. Edward P. Willey. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.
- 5 -- Short Course: "Backgammon" begins. Details and sign up at Union Information Desk.
- 8 -- Football: University of North Carolina, here, 1 p.m.
- 9 -- Free Flick: "The Beatles at Shea Stadium." Sponsored by University Union, YMCA Theater, 8 p.m.
- 9 -- Soccer: University of Virginia, here, 2 p.m.
- 10-16 -- Videotape: "Gladys Knight and the Pips with Ray Charles." Sponsored by University Union, loggia, shown on request.
- 12-13 -- Workshop: "Chlorination." Sponsored by Water and Wastewater Operator Training Program, call 656-3276 for more information.
- 13 -- Performing Artist Series: Trent Arterberry, a mime artist. Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public, tickets may be purchased in advance from the Union Program Office on the loggia or at the door for \$2.
- 15-16 -- Rugby: ACC Tournament, here, time to be announced.
- 15-16 -- National Pershing Rifle Tactics Meet. Sponsored by 4th Regt. Pershing Rifles.
- 15 -- Declamation Contest. High school students recite poetry in different languages for prizes. Sponsored by Languages Department, Daniel Hall, 7 a.m. - 3 p.m. Open to high school students and teachers. Call 656-3393 for more information.
- 16 -- Free Flick: "Deliverance." Sponsored by University Union, YMCA Theater, 8 p.m.
- 17 -- Trustees' Medal Oratory Contest Finals. Co-sponsored by Clemson Forensic Union, Calhoun Forensic Society and English Department, Daniel Auditorium, 8-9 p.m. Open to the public, no admission charge.

## CALENDAR OF CAMPUS EVENTS (continued)

- 17-26 -- Videotape: "Tut the Boy King." Sponsored by University Union, loggia, shown on request.
- 17 -- German Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 18 -- Concert: David Rife in a violin recital accompanied by pianist Linda Barlage. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 20 -- Musical Performance: "Hot Cider Band." Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required, 50¢ donation.
- 22 -- Football: University of South Carolina, here, 1 p.m.
- 23 -- Free Flick: "Godspell." Sponsored by University Union, YMCA Theater, 8 p.m.
- 24-12/5-- Room change period, submit application to Housing Office.
- 26 -- Thanksgiving holidays begin after last class.
- 28-29 -- Basketball: IPTAY Invitational Tournament, here.

## DECEMBER 1980

- 1-7 -- Videotape: "Robin Williams." Sponsored by University Union, loggia, shown on request.
- 1 -- Classes resume.
- 2 -- Department of Music Student Recital, Daniel Auditorium, 7:30 p.m. Open to the public, no admission charge.
- 3 -- English Hour Lecture: Prof. M. Thomas Inge. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.
- 3 -- Basketball: Samford, here.
- 4 -- Concert: Clemson University Chorus and Choral Organization in a program of concert and seasonal music. Sponsored by Music Department, Clemson United Methodist Church, 8 p.m. Open to the public, no admission charge.
- 7 -- Free Flick: "Klute." Sponsored by University Union, YMCA Theater, 8 p.m.
- 8 -- Examinations begin.
- 10-11 -- Conference: "Quality Milk Production." Sponsored by Dairy Science Department. Open to dairymen and persons with dairy interests. Call 656-3230 for more information.

## CALENDAR OF CAMPUS EVENTS (continued)

- 13 -- Basketball: Illinois Tech, here.
- 14 -- Free Flick: "The Way We Were." Sponsored by University Union, YMCA Theater, 8 p.m.
- 16 -- Basketball: West Virginia Tech, here.
- 18 -- Mid-year graduation, Littlejohn Coliseum, 11 a.m.
- 18 -- Army and Air Force ROTC Commissioning exercise, Daniel Auditorium, 9 a.m.
- 19 -- Residence halls close at 8 a.m.

## JANUARY 1981

- 3 -- Basketball: N.C. State, here.
- 4 -- Residence halls open at 10 a.m.
- 5-9 -- Workshop: "Dairy Herdsman Shortcourse." Sponsored by Dairy Science Department. Call 656-3230 for more information.
- 6 -- Registration, all students.
- 8 -- Classes begin on a regular schedule.
- 11-12 -- Auditions: Where's Charley? Clemson Players' production, Daniel Auditorium, 7:30 p.m. Open to all students; singers, dancers and musicians needed.
- 12 -- Concert: Charlotte Symphony Orchestra, featuring French horn soloist Barry Tuckwell. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season ticket, or individual tickets on sale at Gate 5.
- 14 -- Basketball: The Citadel, here.
- 17 -- Basketball: University of Maryland, here.
- 19 -- Basketball: University of Virginia, here.
- 21 -- Basketball: Georgia Tech, here.
- 21 -- Performing Artist Series: "An Evening with Gershwin." Thomas Wright as Gershwin presents a medley of Broadway and Hollywood music. Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public, tickets may be purchased in advance from the Union Program Office on the loggia or at the door for \$2.
- 21 -- English Hour Lecture: Prof. Elisa K. Sparks. Sponsored by English Department, 108 Strode Tower Lounge, 8-9 p.m. Open to the public, no admission charge.

## CALENDAR OF CAMPUS EVENTS (continued)

- 21-22 -- Farm Credit Seminar. Co-sponsored by Agricultural Economics and Rural Sociology Department and Production Credit Association-Federal Land Band Association, Clemson House, begins 1 p.m. Jan. 21 and ends noon Jan. 22. Open to invited guests only.
- 26-2/6 -- Room change period, submit application to Housing Office.
- 26 -- French Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 26-2/4 -- French Play. Presented by students in the Languages Department, Daniel Auditorium, 6-10:30 p.m. Open to the public, no admission charge.
- 27 -- Concert: Christopher Berg in a recital of music for classical guitar. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 27 -- Short Course: "Financial Aid" begins. Details and sign up at Union Information Desk.
- 28 -- Basketball: University of North Carolina, here.
- 29-31 -- Workshop: "Music and the Understanding of History." A series of demonstrations and discussions analyzing the relationship between musical practices and larger historical patterns in various cultures and periods. Sponsored by History Department, Hardin Hall, daytime and evening sessions. Open to the public.

## FEBRUARY 1981

- 7 -- Basketball: University of South Carolina, here.
- 11 -- English Hour Lecture: Best graduate paper in English, title and lecturer to be announced. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.
- 11 -- Basketball: Wake Forest University, here.
- 12 -- Performing Artist Series: Carl Ratcliff Dance Theatre presents "Classical" Modern Dance. Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public, tickets may be purchased in advance at the Union Program Office on the loggia or at the door for \$2.
- 19 -- Concert: Atlantis Productions' "Say it with Music--An Irving Berlin Celebration." Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season ticket, or individual tickets on sale at Gate 5.
- 23-28 -- Musical Comedy: Where's Charley? Clemson Players' production, Daniel Auditorium. Monday - Wednesday and Friday - Saturday, 8 p.m.; Thursday, 3:30 p.m. Open to the public, free with University I.D., \$1 admission charge without I.D.



## CALENDAR OF CAMPUS EVENTS (continued)

23 -- Spanish Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.

25-3/13-- Room reservation period, submit application to Housing Office.

25 -- Basketball: Duke University, here.

28 -- Basketball: Baltimore, here.

## MARCH 1981

1-2 -- Auditions: One Flew Over the Cuckoo's Nest. Clemson Players' production, Daniel Auditorium, 7:30 p.m. Open to all students.

3 -- Concert: John Noel Roberts in a solo piano recital. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.

5 -- Concert: Clemson University Concert Band winter concert. Sponsored by Music Department, Littlejohn Coliseum, 8 p.m. Open to the public, no admission charge.

5-10 -- German Play. Presented by Languages Department students, Daniel Auditorium, 6-10:30 p.m. Open to the public, no admission charge.

8 -- Eaton-Freeman Piano Competition. Sponsored by Music Department, Daniel Auditorium, 3 p.m. Open to the public, no admission charge.

11 -- English Hour Lecture: Prof. Elizabeth D. Carney. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.

13 -- Spring holidays begin after last class.

23 -- Classes resume.

23 -- Concert: New England Conservatory Chorus, conducted by Lorna Cooke de Varon. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season ticket, or individual tickets on sale at Gate 5.

24 -- Clemson Area Continuing Education program begins. Classes will be held March 24 and 31; April 7, 14, 21 and 28.

25-28 -- Conference on Sport and Society: "Sport Studies: The State-of-the-Art." Co-sponsored by Athletic Department and College of Liberal Arts. Day-time seminars in Clemson House, evening lectures in Daniel Auditorium. All events open to the public, no admission charge. Call Joe Arbena at 656-3153 for more information.

26 -- Sorority Sing and Miss Magnolia Pageant. Open to the public, admission will be charged. Call 656-2153 for more information.

## CALENDAR OF CAMPUS EVENTS (continued)

- 28 -- Dixie Day. Sororities compete in field events. Call 656-2153 for more information.
- 30 -- Speech Night Finals. Co-sponsored by Clemson Forensic Union, Calhoun Forensic Society and English Department, Daniel Auditorium, 7:30 - 8:30 p.m. Open to the public, no admission charge.
- 30 -- German Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 31 -- Concert: Kurt Studier, oboist, and duo-pianists Lillian Harder and Jane Palmer in joint recital. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.

## APRIL 1981

- 2 -- Performing Artist Series: Millie Ballinger presents "The Belle of Amherst," a play based on the life of Emily Dickinson. Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public, tickets may be purchased in advance at the Union Program Office on the loggia or at the door for \$2.
- 2-4 -- Biology merit exam for middle school and high school students. Sponsored by Biology Program, 330 Long Hall, 8:30 a.m. - 4:30 p.m. Open to all South Carolina middle school and high school students who have had at least one life science course; registration \$2.
- 4 -- Army and Air Force Military Ball. Sponsored by Military Science Department, Clemson House, 7 p.m. Open to all cadets.
- 7 -- Concert: Clemson University Chorus and Choral Organization in tour concert. Sponsored by Music Department, Clemson United Methodist Church, 8 p.m. Open to the public, no admission charge.
- 8 -- Honors and Awards Day, classes suspended at noon. Army and Air Force ceremony will be held in Daniel Auditorium at 4:15 p.m. College of Nursing will also hold a ceremony; call 656-2072 for more information.
- 8 -- English Hour Reading: A reading of student verse and fiction. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.
- 10-11 -- Dionysia '81. Drama competition in French, German, Russian and Spanish by students from universities and high schools in the Southeastern states. Sponsored by Languages Department, call 656-3393 for more information.
- 11 -- Engineer-In-Training Examination, Part I. Sponsored by College of Engineering, 226 Riggs Hall, 7:30 a.m. - 5 p.m. Open to senior students in the professional engineering curricula who have been approved to take the exam.

## CALENDAR OF CAMPUS EVENTS (continued)

- 11 -- Bengal Ball. Sponsored by University Union, call 656-2461 for more information.
- 11 -- Greek Games. Sponsored by Interfraternity Council, call 656-3422 for more information.
- 13-18 -- Drama: One Flew Over the Cuckoo's Nest. Clemson Players' production, Daniel Auditorium or Daniel Annex. Monday - Wednesday and Friday - Saturday, 8 p.m.; Thursday, 3:30 p.m. Open to the public, free with University I.D., \$1 admission charge without I.D.
- 16 -- Concert: Clemson University Concert Band in spring concert. Sponsored by Music Department, Littlejohn Coliseum, 8 p.m. Open to the public, no admission charge.
- 21 -- Department of Music Student Recital, Daniel Auditorium, 7:30 p.m. Open to the public, no admission charge.
- 27 -- Examinations begin.

## MAY 1981

- 4 -- Short School: "Water and Wastewater Operator Training." Sponsored by Water and Wastewater Operator Training Program. Held at Outdoor Laboratory on Lake Hartwell. Call 656-3276 for more information.
- 7 -- College of Nursing annual reception for graduating students, 100 College of Nursing Building, 7-9 p.m. Open to the public, no admission charge.
- 8 -- Commencement, Littlejohn Coliseum, 11 a.m.
- 9 -- Residence halls close at 8 a.m.
- 17 -- Residence halls open at 10 a.m.
- 18 -- Registration, first summer session.
- 19 -- Classes begin, first summer session.

## JUNE 1981

- 10-11 -- Workshop: "Digesters." Sponsored by Water and Wastewater Operator Training Program, call 656-3276 for more information.
- 24-25 -- Examinations, first summer session.
- 30 -- Registration, second summer session.

## JULY 1981

- 1 -- Classes begin, second summer session.

## CALENDAR OF CAMPUS EVENTS (continued)

25 -- Classes meet, Saturday.

## AUGUST 1981

5-6 -- Examinations, second summer session.

8 -- Graduation, Littlejohn Coliseum, 11 a.m.





### **PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL**

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



September 1, 1980  
Vol. 20 No. 2

## MUSIC ASSIGNMENTS ANNOUNCED BAND PROGRAM

Royce F. Cook, former director of marching bands, has been named director of bands for the University. He will be assisted by Mark E. Fischer who comes to Clemson from the University of South Carolina.

Music Department head John Butler said Cook's expanded duties will include conductorship of the University Concert Band as well as a continuation of his work as conductor of the Tiger Band and Pep Band.

Cook has been associated with the University's band program since 1966. He was interim director of bands from 1966 to 1968 and has been director of marching bands since 1969, with the exception of a two-year leave of absence to obtain the Doctor of Musical Arts degree at the University of Texas at Austin.

The 47-year old Texas native earned the Bachelor of Music Education degree and the Master of Arts degree in music from West Texas State University at Canyon.

An associate professor of music, Cook was a public school teacher of elementary and high school band and music theory for 10 years before coming to Clemson.

Fischer begins his duties as assistant director of bands this season. A native of Mississippi, he is an August 1980 graduate of the University of South Carolina with a Master of Arts degree in music education.

Fischer has been a high school band director for four years, one year at Camden and three years at Sumter.

## SMITH NAMED REGISTRAR

Greenville native Stanley B. Smith Jr. has been named director of records and registration (Registrar), succeeding R. J. Berry who retired this summer.

Smith, 40, has been assistant registrar since 1972. He began his career at Clemson in 1968 as an admissions counselor after having taught math at Wade Hampton High School for two years.

He is a graduate of Greenville Senior High School and holds both B.A. and M.A. degrees from Furman University.

In his new position, Smith is responsible for registering and maintaining academic records on more than 11,000 students each semester. His office also handles graduation and maintains records on all of the more than 90,000 college students and 60,000 continuing education students who have attended Clemson since the school opened its doors in 1893.

## NURSING NAMES DIRECTOR OF GRADUATE PROGRAM

F. Madelynn Oglesby has been named director of graduate programs for the College of Nursing. She assumed her duties June 4, succeeding Prof. Imogene Cahill who retired June 1978. Retired Dean Geraldine Labecki served as acting director in the interim.

Acting Dean of Nursing Gloria Tanner said Oglesby will be responsible for the curriculum, students and faculty in the Master of Science degree program in family health nursing. She will work with the faculty in further development of the curriculum and will provide academic and thesis

advisement for students.

Oglesby comes to Clemson from the University of Delaware at Newark where she was associate professor of nursing in the graduate program.

The 46-year old Florida native earned the Ph.D. in the field of behavioral sciences in 1971 from the University of Delaware. She obtained the M.S. in psychiatric mental health nursing from the University of Maryland and the B.S.N.E. from Florida State University.

Oglesby's academic career includes terms as assistant and associate professor of psychiatric mental health nursing at Emory University in Atlanta and as instructor in that same field at the University of Delaware.

Her nursing experience includes staff nurse positions in the operating room, emergency room and pediatrics.

#### MCCRACKEN'S YOUNGER THAN WE THOUGHT

Our Aug. 1 news special added 10 years to Al McCracken's life.

His new duties as assistant vice president for budgets and planning aren't the culprit that hastened the aging process. It was a simple arithmetic error on our part. Al's 48 years old, not 58.

Please accept our apologies, Al. We'll use a calculator next time.

#### WOMEN EMPLOYEES TO FORM GROUP

Women employees of Clemson interested in joining together for professional improvement are encouraged to attend an organizational meeting Sept. 9 at noon in the Clemson House.

The group, which affirmative action specialist Melonie Willingham says will be loosely affiliated with the South Carolina Women's Network, hopes to reach a large number of "professionally-minded" women on campus for the purpose of

mutual aid and self-education.

Willingham says that invitations have been issued to all women on campus, and names and luncheon fees (\$5.25) must be submitted to her in E-102 Martin Hall by Sept. 5.

Clemson women who wish to attend the luncheon or who are curious about the group and its aims, but who have not received an invitation, can call Willingham at 3181 for more information.

#### BOOK SELECTION SERVICE TO CUT FACULTY EFFORT

The Robert Muldrow Cooper Library is in the process of implementing a book selection service that will eliminate the need for faculty to review catalogs and announcements of new books.

Under the plan, the library will receive, biweekly, descriptive information on newly published books that are compatible with the library's interest areas, according to acting library director Richard Meyer.

"The system will get information to us in a faster, more timely fashion," says Meyer, "and in many instances, new books will already be in the library stacks before public information is available."

Meyer stresses, however, faculty assistance will be actively sought in areas in which library staff expertise is not available.

To facilitate selection of purchases, Meyer is establishing a liaison program with the colleges and departments, with each college and department being assigned one librarian as the contact for the program.

Meyer will begin contacting deans and department heads in the next week or so to further explain the service and set up more formalized communication links.

## LIBRARY OFFERS TWO TUTORIALS

The Robert Muldrow Cooper Library staff will present two tutorials for faculty, staff and students during the latter part of September and October.

The first tutorial will be a one-hour session on Biological Abstracts for beginning graduate students and advanced undergraduates. The session will cover all the indexes and other features of this major abstract journal. Four sessions will be offered in the classroom on the ground floor of the library.

Dates and times are:

Sept. 25, Thurs., 1:30 p.m.

Sept. 30, Tues., 1:30 p.m.

Oct. 2, Thurs., 4:30 p.m.

Oct. 7, Tues., 4:30 p.m.

The second one-hour tutorial describes on-line (computer) bibliographic searching and is open to faculty, staff and graduate students. Four sessions will be offered in the ground floor classroom on:

Oct. 13, Mon., 1:30 p.m.

Oct. 15, Wed., 4:30 p.m.

Oct. 20, Mon., 4:30 p.m.

Oct. 22, Wed., 1:30 p.m.

To register for the tutorials, either visit the Science, Technology and Agriculture Division reference desk on the second floor of the library or call 3024. For more information, contact Peggy Cover, librarian in charge of that division.

## AGRICULTURAL ENGINEERING

Clyde L. Barth (Prof) has received a \$50,000 grant from the S.C. Land Resources Conservation Commission to conduct an accelerated "Agricultural Educational Program to Support the Statewide 208 Nonpoint Source Management Plan."

Jerry B. Davis (Asst Prof) has obtained a \$12,400 grant from the South Carolina Public Service Authority to study "Waste Heat as an Energy Source for Greenhouse Crop Production."

Clarence E. Hood (Prof) has been awarded a \$29,000 grant through the USDA-SEA-AR Vegetable Laboratory at Charleston for "Development of a Green-Onion Harvester for Small Farms."

## ARCHITECTURE

M. David Egan's (Prof) 1978 Wiley-Interscience book, Concepts in Building Fire-safety, will be translated into Japanese for publication by Kajima Institute Publishing Company, Tokyo, Japan.

## CIVIL ENGINEERING

J. Edwin Clark (Prof) has been selected by the U.S. Department of Commerce to chair the U.S. Construction Machinery Equipment and Building Materials Seminar Mission to Panama, Costa Rica, Guatemala and Honduras, Aug. 12-29 where he will present a paper, "An Overview of Construction Equipment and Building Materials Technology."

## ENTOMOLOGY AND ECONOMIC ZOOLOGY

Thomas W. Brown (Asst Prof) has received a \$5,000 grant from Chevron Chemical Company to support a graduate student, W. R. Martin, in his research on "Toxicological Evaluation of Acephate in the Soybean Ecosystem of South Carolina."

T. E. Skelton (Prof) attended the 16th International Congress of Entomology at Kyoto, Japan, Aug. 1-15. Prof. Skelton presented an invited paper during an Education Symposium entitled "Entomology Education in USA." More than 2,000 entomologists from all parts of the world attended the congress which meets once every four years.

J. C. Morse (Assoc Prof) participated in the 3rd International Symposium on Trichoptera held in Perugia, Italy, July 28 - Aug. 2, where he presented a paper, "A Phylogeny and Classification of Family-Group Taxa of Leptoceridae (Trichoptera)." The scientists in attendance accepted Prof. Morse's invitation on behalf of Clemson University and the College of



Agricultural Sciences to convene the 4th International Symposium on Trichoptera at Clemson in July 1983.

## ENVIRONMENTAL SYSTEMS ENGINEERING

Thomas J. Overcamp (Assoc Prof) presented a paper, "The Effect of Throat Length on Pressure Loss in a Venturi Scrubber," at the 73rd Annual Meeting of the Air Pollution Control Association in Montreal June 24. The paper was co-authored by Steven R. Bowen (Former Grad Asst).

## HISTORY

Donald M. McKale (Prof) presented a paper, "Hitler's Children: A Study of Post-war Mythology," to the National Meeting of the Popular Culture Association April 16 in Detroit, Mich.

Prof. McKale was commentator at The Citadel Symposium on Hitler and National Socialism April 24 in Charleston.

He also presented an invited luncheon address, "History and the Holocaust," to the Regional Meeting of Phi Alpha Theta in Milledgeville, Ga., March 29.

Denis Paz (Vstg Asst Prof) published a note, "Church Archives for the State of Nebraska," and reviewed H. C. Dent, Education in England and Wales, for the Historical Magazine of the Protestant Episcopal Church, XLIX (1980), 185-6, 197-9.

## INTRAMURAL PROGRAM

Jim Pope (asst Prof and asst dir of intramurals) recently had two articles published in the Journal of the National Intramural Recreational Sports Association. The articles were entitled: "Communication: A Channel for Effective Intramural Evaluation" and "Management by Objectives: An Effective Management Tool Used in Intramural Sports Administration."

## MATHEMATICAL SCIENCES

Robert Jamison (Assoc Prof) was a reader in calculus for the ETS Advanced Placement Program. The AP reading was conducted at Rider College, Lawrenceville, N.J., June 5-11.

John Kenelly (Prof) visited the South Carolina Governor's School at the College of Charleston July 22-23. During the visit he gave a talk, "Patterns of change: A Prelude to Calculus," to the students and the 30 participants of an NSF sponsored Institute for Talented High School Mathematics Students.

Prof. Kenelly chaired a meeting of the College Board's Advanced Placement/CLEP Mathematics Development Committee in Philadelphia Aug. 8-9.

## PHYSICS AND ASTRONOMY

John R. Ray (Prof) recently published an article, "Noether's Theorem and Exact Invariants for Time-Dependent Systems," in Journal of Physics A, Vol. 80, page 1969, (1980).

He also published a paper, "Nonlinear Superposition Law for Generalized Ermakov Systems," in Physics Letters, Vol. 78A, page 4, July 1980.

## PROFESSIONAL DEVELOPMENT

Claude S. Simpson Jr. (Instr, IM and Asst Dir, PD) is chairperson for the following on-campus seminars: 1) "The Secretary Beyond the Typewriter," Sept. 16; 2) "Results Oriented Engineering Management," Sept. 17-18; 3) "Planning and Managing Warehouse Operations," Sept. 18-19; 4) "Positive Discipline," Sept. 19; 5) "The Woman Managers," Sept. 23-24; 6) "Letter and Report Writing Workshop," Sept. 25-26; 7) "Supervisory and Foremanship Skills," Sept. 29-30.

Evans A. LaRoche (Prof, IM) is chairperson for a three-day seminar, "Fundamentals of Management for Quality Control Supervisors" to be held Sept. 17-19 on campus.



## SYSTEMS ENGINEERING

James A. Chisman (Prof) edited "Personal Recollections of the Attack on Fort Wagner by John A. Porter" which was published in the July issue of South Carolina Historical Magazine.

## ADDITIONAL NEW FACULTY AND STAFF, 1980-81

College of Agricultural Sciences

Childress, William H., Jr., Visiting Instructor in Agricultural Engineering; B.S., M.S., Clemson University; Route 2, Midway Road, Belton 29627

Rainey, Clarence W., Fertilizer-Insecticide Inspector, Fertilizer Inspection and Analysis Department; B.S., Clemson University; 120 Ridgeway Road, Spartanburg 29301

Rives, Luther D., Lecturer in Agricultural Economics and Rural Sociology; B.S., Mississippi State University; 312 Conover Road, Columbia 29210

Watkins, George L., III, Instructor in Agricultural Economics and Rural Sociology; B.S., M.Ag., Clemson University; 1 Essex Drive

College of Industrial Management and Textile Science

Hill, John S., Assistant Professor of Industrial Management; B.S., University of Aston; M.A., University of Lancaster; Ph.D., University of Georgia

Rumble, Clayton T., Lecturer in Accounting and Finance; B.A., University of Michigan; MBA, Wayne State University

Uhimchuk, George A., Visiting Assistant Professor of Economics; B.S., SUNY at Brockport; M.S., Ph.D., VPI & SU

College of Liberal Arts

Cody, William B., Visiting Assistant Professor of Political Science; B.A., M.A., University of Georgia; Ph.D., New School for Social Research; 104 Terrace Drive, Route 2, Hanover Hills, Seneca 29678

Cranston, Mechthild, Visiting Instructor in French; B.A., Ph.D., University of California at Berkeley

Inman, Sue L., Visiting Instructor in English; B.A., Agnes Scott College; M.A., Clemson University; 411 Henderson Road, Greenville 29607

Johnston, Carol E., Visiting Assistant Professor of English; B.A., Rollins College; M.A., University of Florida; Ph.D., University of South Carolina

Kibler, Myra L., Visiting Assistant Professor of English; B.A., Millsaps College; M.A., Ph.D., Emory University

Wright, John C., Visiting Assistant Professor of Psychology; B.A., Wittenberg University; M.A., Ph.D., Miami University of Ohio

### College of Nursing

Chernecky, Cynthia C., Instructor in Nursing, Baccalaureate Degree Program; B.S.N., University of Connecticut; M.A., University of Pittsburgh

### College of Sciences

Pellerin, Carolyn F., Visiting Instructor in Computer Science; B.S., North Georgia College; M.S., Clemson University

## Calendar of Campus Events

### SEPTEMBER 1980

- 15-21 -- Videotape: "I Want It All Now." Sponsored by University Union, loggia, shown on request.
- 15 -- Short Courses: "Quiltmaking" and "Clogging" begin. Details and sign up at Union Information Desk.
- 15-20 -- Art Exhibition: "Clemson Courtyard" by Tom Tyler. Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Open to the public, no admission charge.
- 16 -- Short Course: "Beginning Bridge" begins. Details and sign up at Union Information Desk.
- 17-18 -- Cooperative Education Career Day. Approximately 30 Southeastern companies will send representatives to talk with students about cooperative education, intern, and full-time placement opportunities. Sponsored by Cooperative Education Office and College of Engineering, Palmetto Room of Union, 9:30 a.m. - 4 p.m. Open to all students, no charge.
- 17 -- Short Courses: "Dungeons and Dragons" and "Practical Economics" begin. Details and sign up at Union Information Desk.
- 17 -- Soccer: Georgia State, here, 3:30 p.m.
- 18 -- Short Course: "Yoga" begins. Details and sign up at Union Information Desk.
- 18 -- Poetry Readings. Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required, 50¢ donation.
- 19-20 -- Musical Performance: Kier Irmiter. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, \$1 admission charge.

## CALENDAR OF CAMPUS EVENTS (continued)

- 21 -- Rugby: Greenville Rugby Club, here, 2 p.m.
- 21 -- Free Flick: "Cat on a Hot Tin Roof." Sponsored by University Union, YMCA Theater, 8 p.m.
- 21 -- Soccer: N.C. State, here, 2 p.m.
- 22 -- Lecture: "Family Focused Care" by Prof. Jean Miller of State University of New York College at Brockport. Sponsored by College of Nursing Fine Arts Committee, Daniel Auditorium, 2-4 p.m. Open to the public, no admission charge.
- 22 -- French Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 22-28 -- Videotape: "May the Farce be with You." Sponsored by University Union, loggia, shown on request.
- 22-27 -- Art Exhibition: "Pencil Artwork" by Steve Freeman. Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Open to the public, no admission charge.
- 23 -- Short Courses: "Ballroom Dancing," "Sign Language" and "Disco Dancing" begin. Details and sign up at Union Information Desk.
- 25 -- Short Course: "Hang Gliding" begins. Details and sign up at Union Information Desk.
- 26 -- Department of Accounting and Finance picnic for majors interested in meeting representatives of firms which will be interviewing this year. Call 656-3265 for more information and to sign up.
- 26 -- Beach Party: Music by Tumbleweed. Sponsored by University Union, East Beach, 2-6 p.m. University I.D. required, no admission charge.
- 26-27 -- Musical Performance: Marty Baer. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required.
- 27 -- Football: Western Carolina, here, 1 p.m.
- 28 -- Free Flick: "Highballin." Sponsored by University Union, YMCA Theater, 8 p.m.
- 28 -- Rugby: Atlanta Old White, here, 2 p.m.
- 29-10/4- Drama: Ah, Wilderness! by Eugene O'Neill. Clemson Players' production Daniel Auditorium. Monday - Wednesday and Friday - Saturday, 8 p.m.; Thursday, 3:30 p.m. Open to the public, free with University I.D., \$1 admission charge without I.D.
- 29-10/5- Videotape: "Hollywood: The Dream Factory." Sponsored by University Union, loggia, shown on request.
- 30 -- Concert: Atlanta Symphony Orchestra. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season ticket, or individual tickets on sale at Gate 5.

### **PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL**

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The following deadlines prevail. Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.



SEP 28 1980

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



September 15, 1980  
Vol. 20 No. 3

## FIFTEEN CONCERTS ON TAP FOR 80-81 MUSIC SEASON

The sound of music in 15 concerts will enliven the 1980-81 academic year.

The university's Concert Series will present its 41st consecutive season by offering five performances, the first of which will be the Atlanta Symphony Orchestra on Sept. 30.

On Oct. 30, the Scottish Chamber Orchestra will perform under the leadership of violinist Jaime Laredo, who will also appear as soloist for Vivaldi's "Four Seasons."

The Charlotte Symphony Orchestra will return to the Clemson campus Jan. 12 for a concert showcasing French horn soloist Barry Tuckwell.

Celebrating the music of Irving Berlin, a costumed production titled "Say it with Music" will be presented Feb. 19.

Under the direction of Lorna Cook de Varon, the famed New England Conservatory Chorus will close out the Concert Series season March 23.

Season tickets for the Concert Series can be purchased for \$10 for adults and \$5 for students and children from the Department of Music, 717 Strode Tower.

Tickets for individual performances are \$3 for adults and \$1 for children. Clemson students are admitted free with a valid activities card. All performances are in Littlejohn Coliseum at 8 p.m.

Also included in the 1980-81 music season are six concerts in the Chamber

Music Series, all of which are presented free of charge at 8 p.m. in Daniel Hall Auditorium.

Clemson faculty members, flutist Martha Hamilton and pianist Lillian Harder, will open the Chamber Music Series in a joint recital Sept. 9.

Tenor Phillip Jenkins and pianist Darr Wise of Newberry College will perform Oct. 14. On Nov. 18 young violinist David Rife will appear accompanied by Linda Barlage.

On Jan. 27 Christopher Berg of the University of South Carolina will perform a recital for the classical guitar. On March 3 Furman University's John Noel Roberts will present a program of piano music.

The Chamber Music Series closes March 31 with a joint recital by Greenville Symphony oboe soloist Kurt Studier, Clemson pianist Lillian Harder and Central Wesleyan College's Jane Palmer.

Also included in the 15-concert music season are performances by the University Chorus Dec. 4 and April 7, and Clemson's Concert Band March 5 and April 16.

A calendar of the concert season can be obtained from the Department of Music.

## RHODES SCHOLARSHIP APPLICATIONS AVAILABLE

Applications are now available for any Clemson student interested in applying for a Rhodes Scholarship, tenable at the University of Oxford.



To be eligible, the applicant must:

1) Be a citizen of the United States and unmarried. A Rhodes Scholarship is forfeited by marriage after election or during a scholar's first year of residence. Subject to certain conditions, the Rhodes Trustees may continue the payment of the scholarship if a scholar marries after the first year at Oxford;

2) By the 1st of October of the year of application have passed the eighteenth and not have passed the twenty-fourth birthday. (Scholars elected in December 1980 will enter Oxford in October 1981. Candidates will be eligible who were born on or after Oct. 1, 1956, and before Oct. 1, 1962.);

3) Have achieved academic standing sufficiently advanced to assure completion of a bachelor's degree before October 1981.

Applications should be made to the secretary of the appropriate state committee as early as possible in October, and in no case should applications be sent later than Oct. 31, 1980.

Information about Oxford University, Rhodes Scholarships and application blanks can be obtained from Jerome V. Reel in the Office of Assistant to the Provost, 209 Sikes Hall. Prof. Reel is the institutional representative at Clemson University for the Rhodes Scholarships.

#### COMPETITION OPENS FOR KELLOGG NATIONAL FELLOWSHIP PROGRAM

The W. K. Kellogg Foundation has announced its 1981 program offering outstanding young American professionals an opportunity to broaden their social and intellectual sensitivity, awareness and leadership potential.

Fellows will carry out non-degree, interdisciplinary, self-directed

activity to expand their personal horizons beyond the confines of their chosen professions. While maintaining their present employment, they shall pursue the study component.

Applicants must be 40 years of age or younger as of July 1, 1981, and must hold academic, practitioner or administrative appointments on the staff of land-grant colleges or universities, or institutions on the roster of the Association of American Universities and/or the Association of Academic Health Centers.

Persons interested in applying should contact Jerome V. Reel, Assistant to the Provost, 209 Sikes Hall, before Oct. 15, 1980.

#### FACULTY PROMOTIONS ANNOUNCED FOR 1980-81

##### COLLEGE OF AGRICULTURAL SCIENCES

##### Promoted to Professor:

C. W. Ackerman  
J. T. Craig  
J. P. Fulmer  
A. W. Johnson  
M. G. Johnson  
B. M. Shepard

##### Promoted to Associate Professor:

T. A. Burch  
J. K. Golden  
J. A. Jordan  
G. A. King  
G. E. Miles  
P. J. Rathwell  
B. B. Rhodes  
E. J. Richardson  
W. R. Roberts  
M. M. Stone  
J. R. Sweeney

##### Promoted to Assistant Professor:

P. M. Horton  
R. P. Griffin  
D. C. Smith

## COLLEGE OF ARCHITECTURE

Promoted to Professor:

S. M. Wang

Promoted to Associate Professor:

M. A. Davis

Promoted to Assistant Professor:

H. C. Harritos

## COLLEGE OF EDUCATION

Promoted to Professor:

E. F. Olive

## COLLEGE OF ENGINEERING

Promoted to Professor:

J. N. Beard, Jr.

R. H. Brown

J. E. Clark

J. K. Johnson, Jr.

E. H. Law

S. S. Melsheimer

E. L. Thomas, Jr.

Promoted to Associate Professor:

J. M. Haile

R. J. Kopczyk

COLLEGE OF FOREST & RECREATION  
RESOURCESPromoted to Professor:

G. W. Wood

Promoted to Assistant Professor:

C. E. Poteat

A. T. Shearin

COLLEGE OF INDUSTRIAL MANAGEMENT &  
TEXTILE SCIENCEPromoted to Professor:

J. D. Sheriff

N. K. Womer

Promoted to Associate Professor:

L. S. Clark

M. J. Drews

J. M. McDonald

Promoted to Assistant Professor:

T. L. Martin

## COLLEGE OF LIBERAL ARTS

Promoted to Professor:

J. L. Arbena

R. R. McGregor

J. J. McLaughlin

W. H. Owens, Jr.

Promoted to Associate Professor:

S. K. Eisiminger

E. A. Freeman

R. M. Golden

J. W. Johnson

C. H. Lippy

J. M. Melton

L. I. Park

Promoted to Assistant Professor:

E. P. Arnold

D. J. Calvez

L. U. Harder

M. E. White

## COLLEGE OF NURSING

Promoted to Professor:

G. A. Tanner

Promoted to Assistant Professor:

M. F. Barber

E. D. Schultz

## COLLEGE OF SCIENCES

Promoted to Professor:

M. B. Bishop

J. W. Lawson

J. K. Luedeman

J. C. Peck

J. E. Schindler

## COLLEGE OF SCIENCES (Cont.)

Promoted to Associate Professor:

S. S. Hayasaka  
 R. H. Hilderman  
 F. W. Morgan  
 H. F. Senter  
 J. M. Westall, Jr.

## ACCOUNTING AND FINANCE

Louis Ramsay (Assoc Prof) published an article, "Net Operating Loss Carry Forwards: The Proper Disclosure," in Michigan CPA, May-June, 1980.

Jimmy D. Sheriff (Prof) has been appointed to a one year term on the Education Committee of the National Association of Accountants (NAA) to make recommendations on accreditation, curricula and standards for programs in managerial accounting.

Prof. Sheriff also was named to Who's Who in the South and Southwest for 1980.

## AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

The following faculty members presented papers at the annual meetings of the American Agricultural Economics Association, University of Illinois, July 27-30:

--M. S. Henry (Assoc Prof), "The Spatial and Temporal Impact of a Nuclear Energy Center."

--S. E. Miller (Asst Prof), "Beef Price Hedging Opportunities for Food Service Institutions."

--G. J. Wells (Asst Prof) and J. F. Pittman (Prof), "Assessment of the Price Impact of the South Carolina Cucumber Market Order."

--K. W. Stokes (Asst Prof), "Economic Evaluation of Beef Cow Size and Milking Potential."

L. L. Bauer (Prof) was elected one of the advisors of the student section of the American Agricultural Economics Association at the association's annual meetings, and Owen Wallace (Undergrad Stu) was elected editor of the student section's AAFA Newsletter.

M. D. Hamming (Asst Prof) presented a paper, "The Effects of Shifts in Supply on the World and U.S. Sugar Markets," at the Western Agricultural Economics Association annual meetings in Las Cruces, N.M., July 17-23.

Prof. Hamming presented a seminar, "A Model of the U.S. Fresh Tomato Industry and the Mexican Influence," to the USDA, ESCS economics staff, Washington, D.C., Aug. 20.

Prof. Henry published an article, "Impact of New Industry on County Property Taxes," in the Southern Journal of Agricultural Economics.

J. C. Hite (Prof) served as a judge for the A. Mitchell Graham Award competition sponsored by the S.C. Association of Counties at the association's annual meeting in Myrtle Beach Aug. 14-16.

S. E. Miller (Asst Prof) published an article, "Lead-Lag Relationships Between Pork Prices at the Retail, Wholesale, and Farm Levels," in the Southern Journal of Agricultural Economics, 12(1): 73-76, July 1980.

Prof. Miller and H. M. Harris (Prof) have obtained a \$3,700 grant from the Chicago Board of Trade to study "Alternative Forward Pricing Strategies for Corn, Soybean, and Cotton Producers in South Carolina."

J. C. O. Nyankori (Asst Prof) co-authored an article published in Hort Science, 15(3): 265-266, June 1980, entitled "Methods of Surveying Direct Market Customers."

G. J. Wells (Asst Prof) published an article, "Forecasting South Carolina Tomato Prices Prior to Planting," in the Southern Journal of Agricultural



Economics, 12(1): 109-112, July 1980.

E. D. Wynn (Assoc Prof) was elected to the board of directors of the Community Development Society at the annual meeting held at Humboldt State College, Arcata, Calif., Aug. 4-7.

#### AGRONOMY AND SOILS

U. S. Jones (Prof), M. G. Hamilton (Assoc Prof) and J. B. Pitner (Prof) published a paper, "Atmospheric Sulfur as Related to Fertility of Ultisols and Entisols in South Carolina," in the Soil Science Society of America Journal, Vol. 43, No. 6, 1979.

Prof. Jones has returned from a one year sabbatical serving as visiting professor in the Department of Soil Science at the University of the Philippines as a visiting scientist jointly with the International Rice Research Institute and the Southeast Asian Regional Center for Graduate Study and Research in Agriculture.

#### ARCHITECTURAL STUDIES

D. L. Collins (Prof) participated as a member of an awards jury for the North Carolina Chapter of the American Society of Landscape Architects July 12 in Charlotte, N.C. The jury looked at projects ranging from a new meeting terrace in front of a historic church in Rock Hill to a park and shopping mall in Raleigh, ordinances for soil erosion control, and a watershed planning and design standard for national seashore development. One honor award was given as were several merit awards.

On June 4 Gayland Witherspoon (Prof and Hd), Prof. Collins, Ralph Knowland (Prof and Hd, Bldg Sc) and students Prescott May and Matt Grocott made a presentation at the request of the Design and Planning Section of the Metropolitan Atlanta Rapid Transit (MARTA) to the MARTA board of directors on the work from Prof. Collins' spring

studio. The projects involved the design of a high rise office "air rights" office building at MARTA's High Museum Station. Following the jury, the board requested that the project be displayed in the MARTA office lobby for an extended period of time.

#### BUILDING SCIENCE

M. David Egan (Assoc Prof) lectured on acoustics and noise control at the 1980 Multiprotection Design Institute on Environmental Engineering at the FEMA Staff College, Federal Center, Battle Creek, Mich., July 31. The institute for architecture and engineering faculty was sponsored by the U.S. Federal Emergency Management Agency (FEMA).

#### CHEMICAL ENGINEERING

J. M. Haile (Assoc Prof) attended the 14th International Conference on Thermodynamics and Statistical Mechanics sponsored by the International Union of Pure and Applied Physics (IUPAP) and held at the University of Alberta, Edmonton, Aug. 17-22. The following presentations were made:

--"Analytic Representation of the Triplet Distribution Function for Simple Fluids," with H. W. Graben (Prof, Physics) and R. N. Sane (Physics Grad Stu).

--"Molecular Dynamics Simulations with Volume Fluctuations and/or Energy Fluctuations," with Prof. Graben and C. F. Elliott Jr. (Physics Grad Stu).

--"Perturbation Theories for Quadrupolar Fluids," with L. L. Lee (Asst Prof, Chem Engr, Univ of Okla).

W. F. Beckwith (Prof) attended the 89th National Meeting of the American Institute of Chemical Engineers which was held in Portland, Oreg., Aug. 17-20. At this meeting a paper on the research initiated by Prof. Beckwith while on sabbatical leave during 1979 at the University of Maine at Orono was

presented by Donna L. Kasbohm (Grad Stu, Univ of Maine). The paper was titled "Analysis of Black Liquor by Thermogravimetry and Gas Chromatography."

S. S. Melsheimer (Prof) attended the Joint Automatic Control Conference Aug. 14-15 in San Francisco, Calif., and the 89th National AIChE Meeting Aug. 18-19 in Portland, Oreg. Prof. Melsheimer chaired a session on "Solar Energy Fundamentals and Applications" at the latter meeting.

#### CHEMISTRY AND GEOLOGY

A. R. Pinder (Calhoun Prof) and S. K. Kerr (Undergraduate Research Participant) have published a paper, "The Volatile Essential Oils of Five Bothriochloa Species," in Phytochemistry, 19, 1871 (1980).

#### COMPUTER SCIENCE

E. W. Page (Assoc Prof) published a paper, "Minimally Testable Reed-Muller Canonical Forms," in IEEE Transactions on Computers, Vol. C-29, August 1980.

#### DAIRY SCIENCE

B. F. Jenny (Assoc Prof) and G. D. O'Dell (Prof) received a \$12,500 grant-in-aid to study the effect of two forms of methionine analogue on milk and fat production in cows fed high concentrate rations.

Prof. Jenny, B. A. Costello (Grad Stu) and H. S. van Dijk (Grad Stu) published "Performance of Calves Fed Colostrum Treated with Sodium Benzoate or Benzoic Acid" in the Journal of Dairy Science 63: 959.

#### ECONOMICS

Holley Ulbrich (Prof) spoke on "Women in the Labor Market" to the Association of Women Professionals at the Clemson

House Aug. 6.

Richard McKenzie (Prof) had a column published in the New York Times entitled "The Right to Close Shop," August 26, 1980, op. ed. page.

#### ENGINEERING TECHNOLOGY

David V. Hutton (Assoc Prof) has had a textbook, Applied Mechanical Vibrations published by McGraw-Hill Book Company.

#### ENGLISH

Frank Day (Assoc Prof) published a selected bibliography and biography of Robert Creeley in the Dictionary of Literary Biography by Gale Research, pp. 152-59.

Ronald F. Lunsford (Asst Prof) published "Metaphoric Language in the Poetry of Wallace Stevens and Robert Frost" in The SECOL Bulletin, 4, No. 2 (1980), 51-9, and edited (with Michael Haley and Marvin K. L. Ching) Linguistic Perspectives on Literature (Boston: Routledge Kegan and Paul, 1980). He also attended "The Function of Discourse in Science and Literature," a National Endowment for the Humanities Summer Seminar held at Michigan State University.

David Tillinghast (Asst Prof) directed a poetry workshop for the Southeastern Writers' Conference, Epworth-By-The-Sea, St. Simons Island, Ga., June 15-21.

M. Thomas Inge (Prof and Hd) read a paper at the International Popular Culture Association Conference held at King Alfred College, Winchester, England, in July. The paper was on American humor.

Sterling Eisiminger (Assoc Prof) published "A Year with James Dickey" in Pembroke Magazine, 12 (1980), 161-6.

John Idol (Assoc Prof) reviewed C. E. Frazer Clark's Nathaniel Hawthorne: A Descriptive Bibliography in Studies in Short Fiction (Winter 1980), pp. 97-98.



William Koon (Assoc Prof) published "Hayden Carruth" in Dictionary of Literary Biography: American Poets Since World War II, Vol. 5, part 1, and reviewed Robert Coles' Flannery O'Connor's South in Library Journal, 15 April 1980, and Lucinda M. MacKethan's The Dream of Arcady: Time and Place in Southern Literature in Library Journal, 15 May 1980.

Roger Rollin (Lemon Prof) read "Playboy and the Sexual Revolution" at the Popular Culture International Conference, King Alfred's College, Winchester, England, July 29.

Fred Shilstone (Assoc Prof) published "Byron's The Giaour: Narrative Tradition and Romantic Cognitive Theory" in Research Studies, 48 (1980), 94-101, and "The Courtly Misogynist: Humbert in Lolita" in Studies in the Humanities, 8 (1980), 5-10.

Edward P. Willey (Assoc Prof) published two poems: "Translucent" in Jump River Review, June 1980, p. 6, and "Next Time" in Billy Goat, Summer 1980, p. 13.

#### ENTOMOLOGY AND ECONOMIC ZOOLOGY

Michael J. Hinton (Former Grad Res Asst) and Arnold G. Eversole (Assoc Prof) published a paper, "Toxicity of Ten Commonly Used Chemicals to American Eels" in the proceedings of the annual conference of the Southwest Association of Fish and Wildlife Agencies, 32: 599-604.

Gayle P. Noblet (Assoc Prof, Zoo), T. C. Gore (Former Grad Res Asst, Zoo) and R. Noblet (Prof) published a paper, "Effects of Feeding Schedules on Diurnal Periodicity of Leucocytozoon smithi Gametocytes in the Peripheral Blood of Domestic Turkeys," in J. Protozool. 27: 190-192.

#### FOOD SCIENCE

Charles V. Moore (Stender Prof) presented a symposium paper, "Improving Soy and Oilseed Proteins for Use in

Food Systems," at Second Chemical Congress of the North American Continent, Las Vegas, Nev., Aug. 26.

#### HISTORY

Edwin E. Moise (Vstg Asst Prof) has been chosen as editor of the Vietnam Studies Bulletin, organ of the Vietnam Studies Group of the Association for Asian Studies.

#### HISTORY AND VISUAL STUDIES

Harold N. Cooledge (Alumni Prof, Art and Arch History) participated in the national convention of the Society of Architectural Historians in Madison, Wis., April 23-27. Prof. Cooledge was also chairman of the Founders' Award Committee for the S.A.H.

#### HOME ECONOMICS

Linda L. Mahrer (Asst Prof) presented a research report at the American Home Economics Association annual meeting in Dallas, Tex., in June. Her report, "Present Status of AHEA Home Economics Accreditation," was to the AHEA Agency Member Unit, the body which established policies and procedures for accrediting baccalaureate home economics units in the nation. Those receiving the report were administrators (or other representatives) of undergraduate home economics units in the nation.

#### HORTICULTURE

D. F. Wagner (Assoc Prof) and J. C. Neal (Grad Res Asst) attended the Southern Nurserymen's Association Research Conference in Atlanta and presented a paper, "Root Regeneration by Large B & B Shade Trees in the Holding Area."

#### INDUSTRIAL EDUCATION

Alfred E. Newton (Prof and Hd) made a presentation on "Challenges for the

80's in Vocational Education" to a statewide meeting of high school trades and industries program in Columbia July 31.

B. Verner Burkett (Assoc Prof) served as a consultant to the summer conference for South Carolina industrial arts/pre-vocational education instructors sponsored by the State Department of Education July 30-31 in Columbia.

Prof. Burkett conducted a training session on teaching techniques in a workshop for South Carolina high school bricklaying instructors August 6 in Cherry Grove. The workshop was sponsored by the South Carolina Branch of the Brick Institute of America and the South Carolina Department of Education.

#### INDUSTRIAL MANAGEMENT

Michael J. Stahl (Assoc Prof) co-authored a paper with T. R. Manley of the Florida Institute of Technology and C. W. McNichols of the Air Force Institute of Technology entitled "Alcohol and Federal Employees: Research Findings," which was presented at the annual meeting of the Academy of Management Aug. 13 in Detroit, Mich.

George Worm (Assoc Prof) spent the summer working with the Air Force at Wright Patterson Air Force Base, where he developed an operational procedure for incorporating risk analysis in the pricing function of the Aeronautical Systems Division. The analysis is to be used on acquisition over \$2 million. Prof. Worm was funded through SCEEE by SOR.

#### INFORMATION AND PUBLIC SERVICES

Graphic artist Eve Gibson was awarded a "red-ribbon" honor by the Strathmore Paper Company for her design work on the S.C. Agricultural Experiment Station circular "Nutrient Solutions for Plants."

John Rowntree, a graduate student employee of the graphics office, also picked up honors from the Printing Industry of the Carolina Association for two publications he produced: an envelope for the S.C. Agricultural Extension Service and a 168-page book on the 1978 Clemson football season, The Orange Machine.

#### LANGUAGES

Rob Roy McGregor (Prof of French) had an article, "Heraldic Quarterings and Voltaire's Candide," published in Studies on Voltaire and the Eighteenth Century, volume 183 (1980).

Prof. McGregor also had an article, "Pangloss' Final Observation: An Ironic Flaw in Voltaire's Candide," published in Romance Notes, vol. XX, number 3, 1980.

H. E. Stewart (Prof and Hd of French) published a solicited review, A Genetic Approach to Structures in the Work of Jean Genet by Camille Naish, in The French Review, LIII, no. 5 (April, 1980), 752-753.

#### MATHEMATICAL SCIENCES

Clayton Aucoin (Prof) presented an invited one hour address to the Fourth International Congress on Mathematical Education, entitled "An Integrated Approach to Graduate Education in the Mathematical Sciences." The symposium was held by the International Commission on Mathematical Instruction and was hosted by the National Academy of Sciences and the University of California-Berkeley Aug. 10-16.

Robert E. Jamison (Asoc Prof) gave a colloquium to the Department of Mathematical Sciences on "Matroids, Oriented Matroids and Antimatroids."

John Kenelly (Prof) and Alexia Latimer (former Grad Stu) have published a 110-page booklet "Solutions to the

Advanced Placement Mathematics Examinations (AB and BC) 1971-1980." The booklet will be distributed nationally by the New England and the South Carolina Chapters of the Association of Advanced Placement Mathematics Teachers.

Renu Laskar (Prof) and William G. Frye (Former Grad Stu) have published an article, "Path Number of Bipartite Digraphs," in the Journal of Combinatorial Theory, Series B, vol. 28. no. 2, 1980, p. 243.

Robert E. Ling (Prof) participated in the joint statistical meetings of the American Statistical Association (140th Annual Meeting), The Biometric Society, ENAR and WNAR held in Houston, Tex., Aug. 11-14. Prof. Ling led a discussion on IDA at the Statistical Computing Section Roundtable Luncheon.

#### MECHANICAL ENGINEERING

James G. Goree (Prof) has received continued funding for one year for NASA Grant NSG-1297, "Crack Growth in Bonded Isotropic and Orthotropic Elastic Half-Planes." Funds in the amount of \$65,810 were included in the award. This is the sixth consecutive year of support from the Materials Division of NASA-Langley Research Center.

#### PHYSICS AND ASTRONOMY

A. L. Laskar (Prof) presented a seminar talk, "Ionic Defects and Their Transport in Alkali Azides," Aug. 21 at the Energetic Materials Division, Picatinny Arsenal, Dover, N.J.

H. W. Graben (Prof) attended the Fourteenth Internal Conference on Thermodynamics and Statistical Mechanics in Edmonton, Canada, Aug. 17-22. Two papers, "Analytic Representation of the Triplet Distribution Function for Simple Fluids," co-authored with R. N. Sane (Grad Stu) and J. M. Haile (Assoc Prof, Chem Engr) and "Molecular Dynamics Simulations with

Volume Fluctuations and/or Energy Fluctuations," co-authored with C. F. Elliott (Grad Stu) and Prof. Haile, were presented.

John R. Ray was awarded a N.A.T.O. Fellowship to attend the Advanced Study Institute on Nonlinear Phenomena in Physics held in August at Banff, Canada.

Philip B. Burt (Prof) published an article, "Non Perturbative Contributions to Pi-Pi Scattering," in Letters to Nuovo Cimento, Vol. 28, p. 5 (1980).

Beverly B. Rookmyer (Prof) and P. A. Basilico (Grad Stu) have published a paper, "Improved Ephemeris, UZ Eridani," as I.A.U. Infor. Bull. on Var. Stars No. 1781, 1980. This research was based on observations made by Prof. Rookmyer at Cerro Tololo InterAmerican Observatory, Chile, South America, in December 1979.

#### PLANT PEST REGULATORY SERVICE

H. B. Jackson (Hd) attended the National Plant Board annual meeting held in Brownsville, Tex., Aug. 19-21. He presented the regional report of the Southern Plant Board as its representative to the meeting and also presented a paper, "Regulatory Role in Integrated Pest Management."

#### POLITICAL SCIENCE

Charles W. Dunn (Prof and Hd) has published "Using Debates to Teach American Government," in American Political Science Association, News for Teachers of Political Science, 26 (Summer, 1980), pp. 11, 20, 21.

Prof. Dunn served as judge for the South Carolina Association of Counties J. Mitchell Graham Award to the most progressive county in 1980 (Myrtle Beach) Aug. 13-15.

Joseph L. Arbena (Prof, Hist) and Martin Slann (Prof) presented a paper, "The Diplomatic Isolation of Israel:



Observations on Israeli-Latin American Relations," at the Fifth Mediterranean Conference sponsored by Bar-Ilan University Aug. 5-7.

#### PROFESSIONAL DEVELOPMENT

Kathryn S. Collins (Admin Asst) presented a one-day workshop, "Increasing Enrollments through Effective Brochures," July 28. This program was sponsored by Furman University.

Claude S. Simpson Jr. (Instr, IM and Asst Dir, PD) is chairperson for the following seminars: 1) "Effective Customer Relations," Oct. 1, on campus; 2) "Effective Customer Relations," Oct. 2, Rodeway Inn-Airport in Charlotte, N.C.; 3) "Training the Trainer," Oct. 6-8, on campus; 4) "Practical Skills in Managing People," Oct. 8-9, on campus; 5) "How to Analyze Financial Statements," Oct. 9-10, on campus.

Hassan M. Behery (Assoc Prof, Text) is chairperson for a one-day conference, "Contract Carpet Selection, Construction, Installation and Maintenance for Good Performance," to be held Oct. 6 at the Sheraton Inn-Airport in Atlanta.

Claire O. Caskey (Assoc Prof, Engl) is the lecturer for a one-day program, "Effective Writing Skills for Secretaries," to be held Oct. 7 on campus.

Edward S. Olson (Prof, Text) is chairperson for a one-day seminar, "Wet Pro-

cessing in the '80's," to be held Oct. 15 at the Sheraton Inn in Greenville.

Prof. Behery is chairperson for a one-day seminar, "Fabric Formation in the '80's," to be held Oct. 15 at the Ramada Inn in Greenville.

#### RECREATION AND PARK ADMINISTRATION

Herbert Brantley (Prof and Hd) was recently notified of his election as a Founding Fellow of the Academy of Leisure Sciences. The 31-member academy will hold its initial meeting in conjunction with the Annual Congress for Recreation and Parks, National Recreation and Park Association, scheduled for October in Phoenix, Ariz.

#### TEXTILES

Hassan M. Behery (Assoc Prof) attended the ACS (American Chemical Society) Second Chemical Congress of the North American Continent held at Las Vegas, Nev., Aug. 25-29 and presented a paper, "Applications of Nonwovens in Geotextiles," to the Cellulose, Paper and Textile Division. The paper was chosen by ACS News Service to be made available to the general and technical press.

Donald W. Lyons (Prof) was selected by the South Carolina State Occupational Health Nurses Association to serve as a member of the South Carolina Health Management Advisory Council.

## Calendar of Campus Events

### OCTOBER 1980

- 1 -- English Hour Lecture: Prof. Donald G. Bzdyl. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.
- 2 -- Musical Performance: Bobby Daye. Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required, 50¢ donation.
- 3 -- Soccer: Cleveland State vs. Alabama A&M, 1:30 p.m.; Clemson vs. Appalachian State, 3:30 p.m., here.
- 4 -- Football: Virginia Tech (Homecoming), here, 1 p.m.
- 5-6 -- Auditions: Play to be announced. Clemson Players' production, Daniel Auditorium, 7:30 p.m. Open to all students.
- 5 -- Free Flick: "Brian's Song." Sponsored by University Union, YMCA Theater, 8 p.m.
- 5 -- Bike trip to Blue Ridge Parkway. Details and sign up at Union Information Desk.
- 5 -- Soccer: Consolation Championship, here, 1 and 3 p.m.
- 6-12 -- Videotape: "Bread." Sponsored by University Union, loggia, shown on request.
- 6 -- Short Course: "CPR" begins. Details and sign up at Union Information Desk.
- 8 -- Soccer: Berry College, here, 3:30 p.m.
- 8-9 -- Workshop: "Industrial Treatment." Sponsored by Water and Wastewater Operator Training Program, call 656-3276 for more information.
- 9 -- Short Course: "Spinning" begins. Details and sign up at Union Information Desk.
- 11 -- Rugby: Atlanta Renegade, here, 2 p.m.
- 11 -- Overnight canoe trip. Details and sign up at Union Information Desk..
- 12 -- Free Flick: "The Twelve Chairs." Sponsored by University Union, YMCA Theater, 8 p.m.
- 13-19 -- Videotape: "Great Moments in Sports." Sponsored by University Union, loggia, shown on request.
- 13 -- Spanish Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 14 -- Concert: Philip Jenkins, tenor, in a voice recital accompanied by Darr Wise. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.



### **PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL**

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.



October 1, 1980  
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## NURSING HONOR SOCIETY HOSTS CONFERENCE

Gamma Mu, Clemson's chapter of Sigma Theta Tau National Honor Society of Nursing, will host the first Region Seven Conference Friday, Oct. 10. With the theme "Making Sigma Theta Tau Work --How to Make a Difference in Nursing Leadership," the conference will begin at 2 p.m. in the College of Nursing Building with guest speaker Sylvia Sultenfuss. It will conclude with a 7:30 p.m. banquet at the Holiday Inn.

Sultenfuss, the National Educational Development Committee representative for Region Seven, will speak on "Creative Leadership in Nursing." Five concurrent small group sessions will follow.

Assistant Professor of Nursing Veronica Rempusheski, as a representative of the National Public Affairs Committee for Sigma Theta Tau, will facilitate the group on "Creative Programs/Publicity."

Instructor Becky Campbell, vice president of Gamma Mu, is coordinating the conference with the help of sister chapters from the Medical University of South Carolina, Medical College of Georgia, and University of South Carolina.

All members of Sigma Theta Tau are invited to attend. For registration information, contact Campbell at 3073.

## CLEMSON WOMEN MEET TO DISCUSS NETWORK

Nearly 100 women employees of Clemson met Sept. 9 at the Clemson House to

consider forming a networking organization for career-minded women at Clemson.

Nursing Continuing Education Director Judith Chodil, one of the 13 steering committee members who organized the meeting, explained that the group was inspired by the South Carolina Network of Women Administrators in Higher Education. This organization is composed of women in professional and administrative positions in higher education and has as its goal to identify and assist women who are interested in obtaining a major administrative position.

The Clemson Women heard a report on the S.C. Network meeting held in March in Columbia which was attended by several Clemson women and were told that President Bill Atchley pledges strong support for a women's organization at Clemson.

Attendees were asked to complete a questionnaire which will indicate what direction they want the organization to take.

Some of the goals they considered are to: sponsor and participate in selected training programs for women to improve their professional skills and efficiency; actively assist women in asserting the right to be considered for career advancement and development; present information about the history, structure and operation of the University and to build a network of contacts in various departments; present timely issues from the community and culture which are of particular interest to women; and provide regularly scheduled opportunities to meet and talk informally with other women who work at the University.

When the questionnaire results are tabulated, another meeting will be called to set up guidelines and goals for the organization.

Anyone interested in learning more about the organization and participating in its formation may call Corinne Sawyer at 3022 or Verna Gardner at 2295.

#### PROPOSALS FOR FACULTY RESEARCH COMMITTEE GRANTS BEING ACCEPTED

Proposals for Faculty Research Committee grants should be in the Office of University Research, E-102 Martin Hall, not later than Nov. 1. Only proposals using the Faculty Research Committee application form, which can be obtained from the Office of University Research, will be considered by the committee.

The committee makes awards to new faculty members initiating research, to faculty members initiating research in a new area, and to faculty members in areas where other sources of support are inadequate or nonexistent.

#### NOMINATIONS OPEN FOR DANFORTH ASSOCIATE PROGRAM

Nominations are now being accepted for the Danforth Foundation Associate Program which seeks to recognize and encourage effective teaching and to foster activities which humanize teaching and learning for members of campus communities.

The program recognizes that learning includes the development of sensitivities and values, personal enrichment, and the cultivation of awareness and commitment to the broader community.

It offers distinctive opportunities for interdisciplinary and interinstitutional activities among faculty who share concerns for students as persons and for values in education and in society. This network allows faculty to work collectively as well as individually

with some of the issues facing educational institutions today.

Faculty at accredited four-year institutions who have a primary interest in teaching undergraduate students are eligible for appointment to the Danforth Associate Program. The major criterion for selection is that the person be a dedicated teacher, interested in scholarship, and an individual who seeks to improve faculty-student relationships.

Persons who invest half or more time in research, administration or graduate education are not eligible for appointment. The nomination and appointment of women and minorities is encouraged.

Appointment is for a six-year term. During this period, Associates are invited to three regional conferences with lodging and hospitality provided by the Foundation. The regional conferences are biennial and are held within the sixteen program regions. Conference activities deal with the basic theme of the Foundation in higher education: teaching and learning in a democratic society.

Associates are eligible to apply for grant funds up to \$2,000 to assist in campus activities for projects related to improving the quality of teaching and learning.

Nominations must be received by Dec. 1 for appointments to be made in the spring. Submit nominations to:

Danforth Associate Program  
The Danforth Foundation  
222 South Central Avenue  
St. Louis, Missouri 63105

#### AGRONOMY AND SOILS

J. S. Rice (Assoc Prof), E. M. Glenn (Former Grad Stu) and V. L. Quisenberry (Assoc Prof) published a paper, "A Rapid Method for Obtaining Leaf Impressions in Grasses," in the Agronomy Journal, Vol. 71, 1979.



H. D. Skipper (Prof), J. H. Palmer (Prof), J. E. Giddens (Prof) and J. M. Woodruff (Prof) published a paper, "Evaluation of Commercial Soybean Inoculants from South Carolina and Georgia," in the Agronomy Journal, Vol. 72, 1980.

A. E. Hiltbold (Prof), D. L. Thurlow (Assoc Prof) and H. D. Skipper (Prof) published a paper, "Evaluation of Commercial Soybean Inoculants by Various Techniques," in the Agronomy Journal, Vol. 72, 1980.

#### ANIMAL SCIENCE

Tomas Gimenez (Asst Prof) presented a seminar at the East Carolina Medical School in Greenville, N. C., Aug. 15, entitled "Development of a Test for the Early Pregnancy Diagnosis in the Cow."

The following presented papers at the American Society of Animal Science 72nd Annual Meeting in Ithaca, N.Y., July 27-30:

--"Efforts of Trenbolone Acetate Ear Implants on Performance of Feedlot Heifers," R. L. Edwards (Prof), D. M. Henricks (Prof, Fd Sc and Biochem), T. Gimenez (Asst Prof), G. C. Skelley (Prof) and K. A. Champe (Grad Res Asst).

--"Performance of Two-Year-Old Beef Cows," C. E. Thompson (Assoc Prof), L. W. Grimes (Asst Prof, Exp Stat), S. G. Woods (Instr), L. R. Allen (Assoc Prof, Agron and Soils) and G. C. Skelley (Prof).

--"Effect of Water Purification Method on Pregnancy Rate and Embryo Survival in Gilts," J. R. Diehl (Assoc Prof) and L. Stewart (Tuskegee Institute).

--"Serum LH, Testosterone and Prolactin After PGF<sub>2α</sub> in the Boar," E. S. Fonda, Prof. Diehl, C. R. Barb, T. E. Kiser, R. R. Kraeling and G. B. Rampacek.

Dale L. Handlin (Assoc Prof) presided over the summer meetings of the

the National Block and Bridle Club in Ithaca, N.Y., July 30. He also co-chaired a teaching session of the ASAS meetings and has been selected by the ASAS Board of Directors to serve on the Teaching Committee for 1980-81.

Prof. J. R. Diehl received a \$2,000 grant from Reproductive Consulting Services to conduct research on "The Efficacy of Regumate® for Estrous Synchronization in Gilts." This project is to run for three years from April 15, 1980, to April 14, 1983. Prof. Diehl has also authored a chapter, "Pregnancy Diagnostic Methods for the Sow," (pages 1057-1064) in the book Current Therapy in Theriogenology.

The following staff members have published articles in journals over the period January through August 1980:

--"Efficacy of Soft Drink Filling Room Wastewater as an Energy Supplement for Beef Heifers," D. L. Cross (Assoc Prof), J. M. Gubas (Former Grad Res Asst) and R. R. Kennedy (Former Undergrad Stu), Agricultural Wastes 2 (1980) 171-175.

--"Beef Cattle Breeding Programs Employing Synchronization of Estrus and Artificial Insemination," P. J. Chenoweth, J. C. Spitzer (Assoc Prof) and J. C. Range, The Southwest Veterinarian 33:31.

--"Prolactin and Luteinizing Hormone (LH) Release Throughout the Postpartum Period in the Suckled First-Calf Beef Cow," T. Gimenez (Asst Prof), D. M. Hendricks (Prof), C. H. Chang (Former Grad Res Asst), J. D. Rone (Grad Res Asst) and L. W. Grimes (Asst Prof, Exp Stat), Theriogenology, Volume 14, pp. 135-149, August 1980.

--"The Relationship of Serum Concentrations of Creatine Phosphokinase and of Free Amino Acids in Swine," R. F. Borgman (Prof, Fd Sc), D. L. Handlin (Assoc Prof), S. F. Lightsey (Former Grad Res Asst), F. B. Wardlaw (Clinical Res Spec II, Fd Sc) and G. C. Skelley (Prof), S. C. Agricultural Experiment Station Technical Bulletin 1077, 1980.



## ARCHITECTURAL STUDIES

Yuji Kishimoto (Assoc Prof) attended the 68th Annual ACSA Meeting March 26-29 in San Antonio, Tex. His paper, "Kukan, Space, Order," was presented during the meeting. This paper deals with spatial concepts in a comparative manner particularly between Japan and Western architecture.

## BIOCHEMISTRY

J. M. Shively (Prof and Head) gave the following seminars:

--Scientists and Professionals of West Germany for Concrete Technology, Hamburg, West Germany, "Acid Tolerance Mechanisms of the Thiobacilli," July 1980.

--University of Hamburg, Hamburg, West Germany, "Acid Tolerance Mechanisms of the Thiobacilli," July 1980.

--Phillips University Marburg, Marburg, West Germany, "Ribulose -1,5 Bisphosphate Carboxylase, Carboxysomes, and the Fixation of CO<sub>2</sub> in Autotrophic Microbes," July 1980.

--University of Darmstadt, Darmstadt, West Germany, "Ribulose -1,5 Bisphosphate Carboxylase, Carboxysomes, and the Fixation of CO<sub>2</sub> in Autotrophic Microbes," July 1980.

## BOTANY

R. E. Ballard (Asst Prof) and Jerry B. Davis (Asst Prof, Agr Eng) have been awarded \$26,506 by South Carolina Public Service Authority to study "Waste Heat as an Energy Source for greenhouse Crop Production."

Prof. Ballard was elected editor of the S. C. Aquatic Plant Management Society (S.C.A.P.M.S.) at its annual meeting in Charleston Aug. 21-22. C. R. Dillon (Prof and Hd) presented a paper, "Notes on the Anatomy, Morphology and Ecology of Brazilian Elodea," at the meeting and was elected president of the

organization.

L. M. Kohn (Asst Prof) was in Norway June 15 - July 20 working on floristic and taxonomic studies of the genus Myriosclerotinia (Ascomycetes) in collaboration with Trond Schumacher (Univ of Oslo). On August 25 she participated as an invited speaker in a discussion session on "Taxonomic Techniques for Identification of Soilborne Pathogens" at the Annual Meeting of the American Phytopathological Society in Minneapolis, Minn.

T. M. McInnis (Assoc Prof) and William C. Zattau (Grad Stu) presented the following paper and poster session at the Society for Invertebrate Pathology meeting at the University of Washington, Seattle, July 27 - August 1: "Pathogenicity of Water Mold Leptolegnia sp. for Mosquito Larvae" (paper); "The Mode of Infection of Leptolegnia sp. (Oomycetes): A Parasite of Certain Mosquito Larvae" (poster). Prof. McInnis has been invited by the World Health Organization to visit Geneva, Switzerland, in October to discuss the results of his research on Leptolegnia as a mosquito control vector.

K. M. Peterson (Asst Prof) made two research trips to the Naval Research Laboratory, Barrow, Alaska, in late May and July on his N.S.F. Grant, "The Arctic Tundra - CO<sub>2</sub> Source or Sink." He presented a paper at the meeting of the Ecological Society of America Aug. 3-8 in Tucson, Ariz., "Effects of Drought Stress Upon Growth of Some Sierran and Rocky Mountain Alpine Plants."

## CHEMISTRY AND GEOLOGY

H. G. Spencer (Prof) presented a paper, "Recent Applications of Dynamic Membranes," in the Symposium on Synthetic Membranes and Their Applications, Second Chemical Congress of the North American Continent, Las Vegas, Nev., Aug. 24-29. J. L. Gaddis (Prof, Mech Eng) and C. A. Brandon (CARRE, Inc) were co-authors.

A. R. Pinder (Calhoun Prof) has

published a paper, "Further Synthetic Investigations in the Eremophilane Sesquiterpene Group. Synthesis of (+)-Isovalencenol, and Their (Z)-Isomers, and Experiments Directed Towards the Synthesis of Tessaric Acid," in Journal of the Chemical Society, Perkin Transactions I, 1752 (1980).

J. A. Yavorsky (Grad Stu) and H. G. Spencer (Prof) published a paper, "Effects of Annealing on the Sorption of Propane in Polycarbonate," J. Appl. Polym. Sci., 25, 2105 (1980).

F. Lindstrom (Prof) and R. B. Brown (Grad Stu) presented a paper, "Determination of Physiologically Interesting Acid Dissociation Constants at 37° in Isotonic Saline Solution," at the Second Annual Chemistry Conference of the North American Continent or American Chemistry Society Meeting, Las Vegas, Aug. 29.

Villard S. Griffin Jr. (Prof) has recently had published by the South Carolina Geological Survey a map series monograph entitled "Geology of the Abbeville East, Abbeville West, Latimer and Lowndesville Quadrangles, South Carolina." This report with maps is an outgrowth of two N.S.F. grant-supported research projects.

## CIVIL ENGINEERING

Subhash C. Anand (Prof) visited the University of the Republic, Montevideo, Uruguay, as a Fulbright Lecturer Aug. 2-31 where he taught an introductory short course in Finite Element Methods in Structural Engineering and Structural Mechanics. This non-credit course had received much attention in Montevideo and was attended by more than 40 seniors and practicing structural engineers.

During his visit to South America, Prof. Anand was invited by the Department of Research and Development, Scientific Computation Laboratory, Brazilian National Research Center, Rio-de-Janeiro, to give two technical

seminars to the Center's engineers and scientists. These talks were entitled "Constitutive Relations and Solution Schemes in Elastic-Plastic Finite Element Analysis" and "Mesh-Refinement and Substructuring Technique in Elastic-Plastic Finite Element Analysis" and were given July 30 and July 31, respectively. In addition, Prof. Anand visited the Departments of Mechanical and Civil Engineering at The Catholic University in Rio where he discussed research problems of common interest with the host faculty.

The return trip took Prof. Anand to Medellin, Colombia, South America, where he was invited by the Association of Structural Engineers, the Colombian Chapter of ACI and the Institute of Cement Producers of Colombia, to give a talk on the "Development and Applications of the Finite Element Methods in Structural Engineering." This talk was arranged by two of Prof. Anand's former graduate students at Clemson and was attended by more than 60 structural and mechanical engineers.

Prof. Anand has just received notification from James F. Lincoln Arc Welding Foundation, Cleveland, Ohio, that the Jury of Awards for their 1980 Engineering Student Design Competition has granted the First Award to Mr. Richard F. Bertz (former Grad Stu) for his entry entitled "Post Elastic Analysis and Design of a Web Connection in Direct Tension." This research was carried out by Bertz at Clemson as a master's thesis under the guidance of Prof. Anand, and was sponsored by the American Institute of Steel Construction, Chicago. The award carries a \$1,250 cash prize to Bertz and an unrestricted sum of \$250 to the department.

## ELEMENTARY AND SECONDARY EDUCATION

Barbara M. Raetsch (Asst Prof) conducted a workshop, "Study Skills for Secondary Students in a Study Hall Situation," Sept. 3 for the Teacher Center Inservice Program, District 55 in Laurens and Clinton, S.C. She also conducted a

workshop, "Tests and Measurements -- How to Interpret Psychological Reports," Aug. 14 for teachers in the Lake Greenwood Project. Both workshops were held at Presbyterian College. Raetsch has been selected for membership in the 1980 Who's Who in the South and Southwest.

## ENGLISH

Donald G. Bzdyl (Asst Prof) published "Juliana 559-563a" in Notes and Queries, 27 (1980), 100-1.

Sterling Eisiminger (Assoc Prof) published "Borrowings and Biases in German and English" in Verbatim, 7, No. 1 (1980), 13-15.

John Idol (Assoc Prof) published "For Fred Wolfe: Thoughts on April 12, 1980," a poem, in The Thomas Wolfe Newsletter (Fall 1980), p. 12, and a word study on archaic and obsolete words for melancholy entitled "Mubble-fubbles: An Old-Fashioned Bout with the Black Dog; or Coming Down in the Mouth with a Case of the Humpy-Grumpies" in Verbatim, 7, No. 1 (1980), 9-10.

M. Thomas Inge (Prof and Hd) and Ronald Lunsford (Asst Prof) have been invited to be readers of the essay portion of the College Board Examination administered by Educational Testing Service. The reading will take place in Princeton in December.

## ENVIRONMENTAL SYSTEMS ENGINEERING

A. W. Elzerman (Asst Prof) presented a paper, "Rate of Solution of Ambient Aerosols: Initial Results for Lead" at the American Chemical Society meeting in Las Vegas Aug. 24-29. Prof. Elzerman was also appointed co-editor of Envirofacts, the newsletter of the Environmental Chemistry Division.

Prof. Elzerman also presented an invited paper, "Impact of Trace Metals on Inland Waters: The Case of Lake

Michigan," at the EPA/OECD International Symposium on Inland Waters and Lake Restoration held in Portland, Maine, Sept. 8-12.

## FERTILIZER INSPECTION AND ANALYSIS

H. V. Rogers (Hd) served as co-chairman of the Industry-Regulatory Council session at the annual meeting of Association of American Plant Food Control Officials at Seattle, Wash., Aug. 6-8. He was chairman of the Environmental Affairs Committee which met during the week and gave a report at the meeting. Rogers was also re-elected as a director of the nationwide association.

## FORESTRY

R. E. Schoenike (Prof) has recently compiled a manuscript, "Yellow-Poplar-- An Annotated Bibliography," published by the Department of Forestry.

The E.I. DuPont De Nemours and Company has recently provided funding for support of two research projects: \$37,743 for "Irrigation of a Loblolly Pine Stand and a Mixed Hardwood Stand Using Digested Secondary Wastewater Treatment Plant Sludge" and \$46,712 for "Irrigation of a Loblolly Pine Stand Using Fiber Process Liquid Sludge." Research is to be conducted under the supervision of C. L. Lane (Prof).

The Science and Education Administration, U. S. Department of Agriculture, has granted \$6,760 for the "Development of Audio/Visual Training Aids Relating to Prevention of Southern Pine Beetle Infestations." Research is to be conducted under the supervision of D. L. Ham (Assoc Prof) and R. L. Hedden (Assoc Prof).

## HISTORY AND VISUAL STUDIES

Samuel Vang (Prof) participated as a representative of educational institutions and as a photographer at the National Endowment for the Arts



Southeast Regional Task Force on Photography meeting Sept. 6 in Atlanta, Ga. Discussions centered around the future of the NEA in relation to needs of this region.

John T. Acorn (Prof and Hd) served as juror for the Labor Day Art Festival in Simpsonville Sept. 1. On Sept. 7 Prof. Acorn opened an exhibition of his recent sculpture at the Pickens County Art Museum in Pickens, and on Sept. 10 he was guest lecturer in the Art Department of Lander College in Greenwood.

#### INDUSTRIAL MANAGEMENT

J. Michael McDonald (Assoc Prof) is the lecturer for a two-day workshop, "Communication and Listening to Improve Productivity," to be held Oct. 15-16 on campus.

Warren W. Menke (Prof) is the chairperson and lecturer for a two-day workshop, "Utilize the Computer to Improve Your Management Ability," to be held Oct. 28-29 on campus.

#### LANGUAGES

Rob Roy McGregor (Prof) read a paper, "Camus' Absurd Man: A Metamorphosis of Milton's Satan," at the West Virginia University Colloquium on Modern Literature: The Romantic Presence, Sept. 11-13.

#### MATHEMATICAL SCIENCES

K. T. Wallenius (Prof) met with lawyers and contract specialists representing both the Navy and a large shipbuilding firm Sept. 19 to explore the use of statistical sampling methods as an alternative to the long and expensive process of claims litigation. Following the shipyard briefing and subsequent discussions, he presented an invited address at the Johns Hopkins Biostatistics Colloquium entitled "Use of Classical Sampling Methods in Competitive Scenarios."

#### PLANNING STUDIES

Glenn C. Varenhorst (Assoc Prof) was awarded a research project, "A Comparison of the Historic Preservation Programs of Charleston and Columbia, S.C." The department will carry out the research which is sponsored by the S. C. Committee for the Humanities. After completing the research, information will be disseminated to interested groups throughout the state by radio, television, presentations, talks, etc. The project will run from Aug. 16, 1980, to Aug. 15, 1981.

#### POULTRY SCIENCE

K. K. Hale (Assoc Prof) presented a paper, "Effects of Environment on Processing and Cooked Yields of Turkeys," at the annual meeting of the Poultry Science Association held at Purdue University in August.

At the same meeting, D. V. Maurice (Asst Prof) presented "Effects of Dietary Copper and Salt on Broiler Performance and Oily Bird Syndrome Under Two Temperature Regimes." The paper was co-authored by J. E. Jones (Prof) and Prof. Hale.

#### SOCIOLOGY

Larry Peppers (Assoc Prof) and Ronald Knapp (Assoc Prof) published a book, Motherhood and Mourning, by Praeger publishers which deals with the problems encountered by mothers who have experienced miscarriages, stillbirths and neonatal deaths. Profs. Peppers and Knapp also published an article, "Maternal Reaction to Involuntary Fetal/Infant Death," in Psychiatry, 43:2 (May) 1980, pp. 155-159.

Christopher M. Sieverdes (Assoc Prof) published an article, "Disposition Decisions by Juvenile Court Probation Officers and Judges: A Multivariate Analysis," in Criminal Justice Review 4:2 (Fall) 1979, pp. 121-132.



William M. Wentworth (Asst Prof) published a book, Context and Understanding: An Inquiry Into Socialization Theory, by Elsevier Scientific Publishing Company. After examining current perspectives and knowledge, the book reorients socialization theory based on some powerful principles of integration borrowed from linguistics, a situated concept of culture and a revised view of social power and control.

## ZOOLOGY

Robert J. Taylor presented a paper, "Density-Dependent Dispersal and Population Fragilitv," at the annual meeting of the Ecological Society of America in Tucson, Ariz., Aug. 8.

Darrell G. Yardley (Asst Prof) and Mitchell I. Chernin (Grad Stu) recently attended the 49th annual meeting of the Genetic Society of America held in Boulder, Colo., Aug. 17-20, and presented a paper, "Cloning of the Amylase Gene of *Drosophila pseudoobscura*." An abstract co-authored with Ellis L. Kline (Assoc Prof, Micro), R. W. West and R. L. Rodriquez was published on the work in Genetics 92: s113-s114.

Prof. Yardley and Chernin also presented a paper at the Southeastern Ecological Genetics Conference held at Mountain Lake Biological Station, Virginia, Aug. 21-23. The paper was entitled "Functional Selection for the Amylase of *Drosophila pseudoobscura* in *Escherichia coli*."

## MAXWELL TO SPEAK AT AAUP MEETING

Clemson Provost David Maxwell will speak Oct. 10 at the fall meeting of the Clemson Chapter of the American Association of University Professors.

The dinner meeting, to be held at the Holiday Inn at 6:30 p.m., will give Clemson AAUP members an opportunity to hear Maxwell discuss the new office of provost at the University.

AAUP President Arline Duvall said Maxwell's appearance before the association "will give a broad cross section of Clemson faculty a chance to question Dr. Maxwell about his views on academic policies, present and future."

The dinner meeting is open to all faculty members, Duvall said, whether they are AAUP members or not.

## Calendar of Campus Events

OCTOBER 1980

- 15 -- Speakers Bureau Presentation: Coach Bill Foster discusses first practice of season and prospects for upcoming year. Brackett Auditorium, 7 p.m. Open to public, no admission charge.
- 16-21 -- Spanish Play. Presented by Languages Department students, Daniel Auditorium, 6-10:30 p.m. Open to the public, no admission charge.
- 17-18 -- Musical Performance: Spherris & Voudouris. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, \$1 admission charge.
- 17 -- Beer Garden: Mike Williams. Sponsored by University Union, East Bank. University I.D. and proof of age required. Details at Union Information Desk.
- 18 -- Football: Duke (Parents' Day), here, 1 p.m.
- 19 -- Rugby: Columbus (Ga.) Fliers, here, 2 p.m.
- 19 -- Free Flick: "Jeremiah Johnson." Sponsored by University Union, YMCA Theater, 8 p.m.
- 19 -- Soccer: North Carolina, here, 2 p.m.
- 20 -- Short Course: "First Aid" begins. Details and sign up at Union Information Desk.
- 20-26 -- Videotape: "Janus Ian." Sponsored by University Union, loggia, shown on request.
- 22 -- Short Course: "Couple Communication" begins. Details and sign up at Union Information Desk.
- 23 -- Performing Artist Series: Alabama Shakespeare Festival presents "Two Gentlemen of Verona," a classic comedy about love and friendship. Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public. Tickets may be purchased from the Union Program Office on the loggia or at the door, \$7.50 for the entire series, \$2 for a single performance.
- 23-25 -- Thirtieth Annual Mountain Interstate Foreign Language Conference. Call 656-3393 for more information.
- 25 -- Short Course: "Basketry" begins. Details and sign up at Union Information Desk.
- 25 -- Trip to Biltmore House and Gardens. Details and sign up at Union Information Desk.
- 26 -- Free Flick: "Vanishing Point." Sponsored by University Union, YMCA Theater, 8 p.m.

## Calendar of Campus Events (Cont.)

- 27 -- Intramural Debate Tournament Finals. Co-sponsored by Clemson Forensic Union, Calhoun Forensic Society and Department of English, Daniel Auditorium, 7:30 - 8:30 p.m. Open to the public, no admission charge.
- 27-11/2- Videotape: "Night of the Living Dead." Sponsored by University Union, loggia, shown on request.
- 28 -- Lecture: "Election Night Predictions." Dr. Nathaniel Macon, visiting professor in mathematical sciences, uses low level mathematics to explain how news media make election predictions. Sponsored by Mathematical Sciences Department, E-1 Martin Hall, 4 p.m. Open to the public, no admission charge.
- 29 -- Speakers Bureau Presentation: Dr. Wilson Bryan Key presents multimedia presentation on subliminal seduction--the secret ways advertisers arouse consumers' attention to manipulate them into spending money. Brackett Auditorium, 7 p.m. Open to the public, no admission charge.
- 30 -- Concert: Scottish Chamber Orchestra with violin soloist Jaime Laredo. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season ticket or individual tickets on sale at Gate 5.
- 30 -- Soccer: Erskine College, here, 3:30 p.m.
- 31 -- Costume Contest. Co-sponsored by ARA and University Union, details at Union Information Desk.
- 31 -- Film Special: "Dracula Nosferatu" and "Burnt Offering." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required. Admission charge to be announced.





### **PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL**

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.



October 15, 1980  
No. 5



**UNITED FOR UNITED WAY**--On hand for the official start of this year's University-wide United Way campaign were, left to right, Nick Lomax, campus chairman, John Bell, Pickens County chairman, and Bill Atchley, Clemson president.

## CAMPUS UNITED WAY DRIVE UNDERWAY FOR 1980

Leaders of the University's United Way campaign kicked off the 1980 campus-wide drive Oct. 1, with high hopes of surpassing last year's total of \$11,200.

A volunteer force representing each college and major division attended the 7:15 a.m. session at the Clemson House to launch the month-long solicitation.

The group heard brief remarks from Nick Lomax, campus campaign chairman, Bill Atchley, University president, and John Bell, this year's Pickens County campaign chairman.

Lomax emphasized the importance of the United Way program to the community and said he hopes every Clemson employee will seriously consider a gift or pledge.

Campaign brochures, pledge cards and other informational literature have been distributed to each employee.

The campaign will seek gifts and pledges which will be used to help the various member agencies of United Way provide a variety of community services in the tri-county area. Donors may specify that their gifts be earmarked for programs in the county of their choice.

"Clemson University is an important part of the community," said Lomax, "and our participation and a successful campaign for the United Way provides all of us with an opportunity to further serve the community of which we are a part."

Steering committee members and the colleges or areas they represent are R. Kenneth Peden, College of Education; John Clemens, College of Forest and Recreation Resources; Rameth Owens, College of Liberal Arts; Marcella Jordan, College of Industrial Management and Textile Science; Pat Padgett, College of Nursing; Nelle Bridges, College of Agricultural Sciences; Jerry Whitmire, College of Engineering.

Also on the committee are Cleve Ann Senn, College of Sciences; Edgar Killingsworth, College of Architecture; Tom Harbin, Business and Finance; Wanda Hunt, Robert M. Cooper Library; Jeff McNeill, Alumni Center; Butch Trent, Student Affairs; and John Allen, Information and Public Services and Communications Center.

## PERFORMING ARTIST SERIES: MUSIC, DRAMA, DANCE, MIME

Music, drama, dance and mime are the ingredients of the second annual Performing Artist Series sponsored by the University Union. All performances are

at 8 p.m. in Daniel Hall Auditorium.

"Two Gentlemen of Verona," Shakespeare's timeless depiction of romantic and brotherly love and the deceit which threatens both, will be staged Oct. 23. Performing the romantic comedy will be the Alabama Shakespeare Festival, one of the fastest growing Shakespearean companies in America. Beginning its ninth season, the Alabama Shakespeare Festival was named the State Theater of Alabama in 1977.

The mystery of mime will be the second performance in the Performing Artist Series, as Trent Arterberry brings his artistry to campus Nov. 14. Arterberry has performed with the National Mime Theatre and was the first performing artist-in-residence at the Carnegie Institute's Three Rivers Arts Festival.

The third offering in the series is set for Jan. 21, when "An Evening With George Gershwin" is performed by Thomas Wright. The one-man show features such Gershwin favorites as "Rhapsody in Blue" and "An American in Paris," in addition to Wright's portrayal of Gershwin and the spirit behind the composer's musical career.

The Carl Ratcliff Dance Theatre comes to campus Feb. 12 with a repertoire of contemporary choreography strongly influenced by classical ballet. Ratcliff, the recipient of the prestigious 1978 Governor's Award for Arts, includes in his six-person company Virginia Barnett, formerly a soloist with the New York City Ballet.

The Performing Artist Series' final presentation will be Apr. 2. "The Belle of Amherst," a portrayal of the life of Emily Dickinson, will be performed by Clemson resident Millie Ballinger. The show will give a unique glimpse of the poetry and life of one of America's most-loved writers.

Tickets for the entire series are available at the University Union for \$7.50. Individual tickets can be purchased at the door for \$2. There is no reserved

seating, but season ticket-holders will be seated before individual ticket-holders. For more information contact Marcia Kiessling at the University Union, 656-2461.

#### GROUP INSURANCE COMMITTEE ESTABLISHED TO ADVISE PRESIDENT

President Bill L. Atchley has established the University Group Insurance Committee to advise him on matters involving group-type insurance programs.

The committee will investigate and study various insurance programs as dictated by need and availability or as requested by Atchley and will report its findings and recommendations to him.

The committee also will make recommendations concerning distribution of income in excess of expenses on all group-type insurance programs.

Final decisions on insurance issues will be made by the president.

Ronald T. Herrin, director of payrolls and employee benefits programs, has been appointed a permanent member of the committee and will serve as chairman. Other permanent members of the committee are Virgil L. Quisenberry, chairman of the Faculty Senate's Welfare Committee, and Richard F. Stone, assistant director of personnel.

One-year-term appointees are Dorothy H. Burchfield, a staff assistant in the Department of Agricultural Engineering, and Paul K. Gable, a business and financial analyst in the College of Agricultural Sciences.

John C. Newton, director of auxiliary services, and Benjamin M. Hawkins, assistant professor of economics, have been named to two-year terms.

Appointed to three-year terms are Billy S. Nix, motor pool supervisor, and Charles B. Russell, associate professor of mathematical sciences and industrial management.



## ART EXHIBITION PLANNED AS PART OF CONFERENCE ON SPORT AND SOCIETY

A special feature has been added to plans for the University's first annual Conference on Sport and Society Mar. 25-28.

The College of Architecture will sponsor an invitational art exhibition, featuring the works of local artists, as a part of the conference.

Lee Gallery curator Tom Dimond, exhibition coordinator, said contributing artists likely will include members of the University's architecture faculty.

He said a confirmed list of participating artists will not be available until January.

## REVISED CAMPUS GUIDE MAPS NOW AVAILABLE

The 1980 revision of the campus guide map is now in stock at Central Stores and can be purchased for 12¢ each.

The maps are 24" x 18" and fold down to 4" x 9". One side contains a map of the University, a campus index and an index to buildings. The other side includes information on the University in general, campus attractions and other useful information for visitors.

Another popular item available through Central Stores is the press kit, or pocket, folder. The 9 1/2" x 12" folder, which comes in either blue or brown, can be used to hold loose material for meetings, presentations, etc. The cost is 44¢ each.

These items may be purchased by following the usual procedure of completing the Office and Janitorial Requisition, Form CUBO 202.

## PROPOSALS FOR FACULTY RESEARCH COMMITTEE GRANTS BEING ACCEPTED

Proposals for Faculty Research Committee grants should be in the Office of University Research, E-102 Martin Hall, not later than Nov. 1. Only proposals using the Faculty Research Committee application form, which can be obtained from the Office of University Research, will be considered by the committee.

The committee makes awards to new faculty members initiating research, to faculty members initiating research in new areas, and to faculty members in areas where other sources of support are inadequate or nonexistent.



**NEW FIRE STATION**--Construction of a new University fire station has begun at the intersection of MacMillan and Perimeter Roads, near the Horticulture Gardens.

The 7000-square-foot facility, scheduled for completion by Apr. 24, will house the University's fire and emergency medical equipment and will provide sleeping quarters for four firemen.

The Board of Trustees awarded a \$436,200 contract for construction of the facility to South General Construction Company of Anderson.





**AUDIO-VISUAL CENTER**--The Sony big screen projection system now in the University Union's audio-visual center was purchased with funds from the Alumni Association.

#### **MCKENZIE NAMED INTERNAL EDITOR**

Jack A. McKenzie, 26, has joined the University as internal communications editor in the Department of Information and Public Service.

McKenzie will be editor of the campus-wide "Clemson University Newsletter" and managing editor of the tabloid newspaper "Clemson University News," according to Beulah Cheney, associate director for publications and graphic services.

As "Newsletter" editor, McKenzie will complete revisions underway designed to make the publication a more effective medium for campus communications. More news and features about Clemson people and programs and more information about benefits programs and operating policies are planned.

McKenzie will also be responsible for reporting Faculty Senate news and writing and producing news specials.

A former "Tiger" editor and Norris Medal winner, McKenzie earned his bachelor's degree here in 1976.

The Mullins native returns to Clemson from Columbia where he has been executive director of the S. C. Board of Certification of Environmental Systems Operators.

Before that he held two positions here in the Department of Environmental Systems Engineering, first as editor of "The Operator," a tabloid newspaper, and later as project coordinator in the Office of Operator Training.

#### **LIBRARY TUTORIALS PLANNED**

Two ninety-minute tutorials on the Congressional Information Service (CIS) Index and the American Statistics Index are planned for Oct. 30 in the library.

Jane Edwards of CIS will conduct one session at 10 a.m. and another at 1 p.m.

The two indexes are recognized as valuable sources of information about Congressional and other government publications.

Further details are available from Maureen Harris at 656-3024.

#### **FACULTY SALARY REPORT RELEASED BY PROVOST**

The Office of Provost and Vice President for Academic Affairs has released a faculty salary report for fall 1980-81.

The report (beginning on page 5 of this newsletter) includes college-wide maximum, minimum, median and average salaries for professors, associate professors, assistant professors and instructors, by sex.

The report contains similar information for the University as a whole. Salary information regarding professional librarians also is included.

For occupancy classes with less than five faculty members, no information is given other than the number of persons in each class. This number is shown in parentheses but is not included in faculty totals. Administrators and visiting faculty have been excluded.

FACULTY SALARY REPORT  
Fall Semester 1980-81  
(Nine-month Basis)

|                            | Number | Maximum | Minimum | Median | Average |
|----------------------------|--------|---------|---------|--------|---------|
| <hr/>                      |        |         |         |        |         |
| Male                       |        |         |         |        |         |
| <hr/>                      |        |         |         |        |         |
| <u>Professor</u>           |        |         |         |        |         |
| Agri Sciences              | 89     | 35,325  | 23,164  | 29,698 | 29,586  |
| Architecture               | 15     | 36,200  | 26,380  | 31,320 | 31,393  |
| Education                  | 14     | 33,110  | 24,533  | 29,947 | 29,142  |
| Engineering                | 43     | 41,726  | 25,898  | 32,019 | 32,309  |
| For & Rec Res              | 15     | 35,965  | 24,821  | 29,254 | 29,852  |
| IM & TS                    | 26     | 41,553  | 25,600  | 32,600 | 33,030  |
| Liberal Arts               | 14     | 41,553  | 25,250  | 30,000 | 32,214  |
| Sciences                   | 53     | 41,450  | 25,640  | 32,102 | 32,127  |
| <hr/>                      |        |         |         |        |         |
| Female                     |        |         |         |        |         |
| <hr/>                      |        |         |         |        |         |
| Agri Sciences              | (1)    |         |         |        |         |
| Education                  | (2)    |         |         |        |         |
| IM & TS                    | (1)    |         |         |        |         |
| Nursing                    | (1)    |         |         |        |         |
| Sciences                   | (3)    |         |         |        |         |
| <hr/>                      |        |         |         |        |         |
| Total                      |        |         |         |        |         |
| <hr/>                      |        |         |         |        |         |
|                            | 269    | 41,726  | 23,164  | 30,756 | 31,083  |
| <hr/>                      |        |         |         |        |         |
| <hr/>                      |        |         |         |        |         |
|                            | Number | Maximum | Minimum | Median | Average |
| <hr/>                      |        |         |         |        |         |
| Male                       |        |         |         |        |         |
| <hr/>                      |        |         |         |        |         |
| <u>Associate Professor</u> |        |         |         |        |         |
| Agri Sciences              | 70     | 30,901  | 18,174  | 24,110 | 23,752  |
| Architecture               | 17     | 33,100  | 21,600  | 27,375 | 26,873  |
| Education                  | 15     | 27,522  | 22,000  | 24,063 | 24,080  |
| Engineering                | 45     | 32,750  | 20,353  | 25,616 | 25,699  |
| For & Rec Res              | 12     | 27,836  | 22,756  | 24,641 | 24,897  |
| IM & TS                    | 21     | 31,100  | 22,886  | 28,000 | 27,518  |
| Liberal Arts               | 34     | 27,525  | 19,400  | 23,100 | 23,199  |
| Sciences                   | 40     | 30,100  | 19,159  | 24,525 | 24,595  |
| <hr/>                      |        |         |         |        |         |
| Female                     |        |         |         |        |         |
| <hr/>                      |        |         |         |        |         |
| Academic Affairs           | (1)    |         |         |        |         |
| Agri Sciences              | 7      | 24,187  | 20,638  | 22,216 | 22,186  |
| Architecture               | (1)    |         |         |        |         |
| Education                  | (1)    |         |         |        |         |
| For & Rec Res              | (1)    |         |         |        |         |
| IM & TS                    | (2)    |         |         |        |         |
| Liberal Arts               | (4)    |         |         |        |         |
| Nursing                    | (3)    |         |         |        |         |
| Sciences                   | (4)    |         |         |        |         |
| <hr/>                      |        |         |         |        |         |
| Total                      |        |         |         |        |         |
| <hr/>                      |        |         |         |        |         |
|                            | 261    | 33,100  | 18,174  | 24,540 | 24,680  |
|                            | (17)   |         |         |        |         |

|                            | Number     | Maximum | Minimum | Median | Average |
|----------------------------|------------|---------|---------|--------|---------|
| Male                       |            |         |         |        |         |
| <u>Assistant Professor</u> |            |         |         |        |         |
| Agri Sciences              | 48         | 23,214  | 17,459  | 20,615 | 20,596  |
| Architecture               | 6          | 20,720  | 15,956  | 19,940 | 19,056  |
| Education                  | 5          | 22,611  | 18,285  | 20,345 | 20,664  |
| Engineering                | 14         | 24,440  | 19,536  | 21,795 | 21,893  |
| For & Rec Res              | 15         | 21,559  | 17,724  | 19,325 | 19,329  |
| IM & TS                    | 20         | 25,130  | 16,110  | 22,000 | 21,972  |
| Liberal Arts               | 41         | 21,600  | 15,236  | 18,100 | 18,236  |
| Sciences                   | 24         | 23,619  | 16,500  | 19,085 | 19,443  |
| Female                     |            |         |         |        |         |
| Agri Sciences              | 8          | 21,653  | 17,865  | 20,730 | 20,380  |
| Architectures              | (1)        |         |         |        |         |
| Education                  | (4)        |         |         |        |         |
| For & Rec Res              | (1)        |         |         |        |         |
| IM & TS                    | (1)        |         |         |        |         |
| Liberal Arts               | 15         | 21,100  | 15,850  | 17,850 | 18,013  |
| Nursing                    | 14         | 26,523  | 15,000  | 21,405 | 20,888  |
| Sciences                   | 5          | 20,935  | 18,500  | 19,990 | 19,814  |
| Total                      |            |         |         |        |         |
|                            | 215<br>(7) | 26,523  | 15,000  | 19,964 | 19,911  |

|                   | Number     | Maximum | Minimum | Median | Average |
|-------------------|------------|---------|---------|--------|---------|
| Male              |            |         |         |        |         |
| <u>Instructor</u> |            |         |         |        |         |
| Agri Sciences     | 10         | 18,982  | 13,555  | 16,769 | 16,563  |
| Architecture      | (1)        |         |         |        |         |
| Education         | (2)        |         |         |        |         |
| For & Rec Res     | (4)        |         |         |        |         |
| IM & TS           | 5          | 19,360  | 16,068  | 18,426 | 17,839  |
| Liberal Arts      | 8          | 20,050  | 11,300  | 13,250 | 14,062  |
| Sciences          | (10)       |         |         |        |         |
| Female            |            |         |         |        |         |
| Agri Sciences     | (4)        |         |         |        |         |
| Education         | (1)        |         |         |        |         |
| For & Rec Res     | (1)        |         |         |        |         |
| IM & TS           | (4)        |         |         |        |         |
| Liberal Arts      | 8          | 13,500  | 11,300  | 12,000 | 11,912  |
| Nursing           | 12         | 17,662  | 13,250  | 15,624 | 15,568  |
| Sciences          | 6          | 20,045  | 16,113  | 18,540 | 18,208  |
| Total             |            |         |         |        |         |
|                   | 49<br>(18) | 20,050  | 11,300  | 16,021 | 15,483  |

|            | Number | Maximum | Minimum | Median | Average |
|------------|--------|---------|---------|--------|---------|
|            | Male   |         |         |        |         |
| Librarians | 5      | 18,973  | 15,859  | 17,249 | 17,379  |
|            | Female |         |         |        |         |
|            | 6      | 19,676  | 16,566  | 18,110 | 17,856  |
|            | Total  |         |         |        |         |
|            | 11     | 19,676  | 15,859  | 17,628 | 17,639  |

## WHAT'S GOING ON AT WEPR?

What in the world is so special about October?

Well, for one thing, October is National Public Radio Awareness Month, and member station WEPR (FM 90) is celebrating by filling the air with plots, prologues, jazz, Latin beats, conversations with Alice and much more.

Weekday and weekend program schedules for October are on page 13 of this

newsletter. The schedules include programs produced by National Public Radio and shows produced by the University station of WEPR in the Clemson House.

## JEFFREYS JOINS WEPR STAFF

Rachel Jeffreys has been appointed educational radio producer/director for WEPR (FM 90). She joined the staff Sept. 15, replacing Jim Barnhill, who is on leave.

Her responsibilities with WEPR include producing a news program, "Drive Time" (4:30-5 p.m., Monday-Friday), and a program about opera co-hosted by history professor Jerry Reel, "Plots and Prologues" (2:30 p.m., Sunday), according to station manager Lily Hall.

A native of Richmond, Va., Jeffreys was graduated from Georgetown University with the bachelor of science degree in 1971.

She has performed in radio commercials and dramas in Indiana and has appeared in the leading role of an off-Broadway musical in which she played Queen Victoria.

Most recently associated with South Carolina's educational television and radio networks in Columbia, Jeffreys received the S. C. Education Association's award for best radio program, 1979-80, for her production of "The Midlands: Yesterday, Today and Tomorrow." The documentary was funded by a grant from the National Endowment for the Humanities.



## How in the world did WEPR get into this jam?

By choice. We bring you the world's greatest jams on Jazz Alive with Billy Taylor. Come with us to Nice to hear Lionel Hampton, or to the Swiss Alps to hear Oscar Peterson at Montreux, or to the Smithsonian to hear Woody Herman's Herd. We take you from the blues of Lene Home to the horn of Urbie Green. Whether it's Preservation Hall in New Orleans, or Carnegie Hall in New York, we're no sooner out of one jam than we're into another.

"Essence of Jazz," Mondays at 7 p.m.

"Jazz Revisited," Tuesdays at 7 p.m.

"Jazzspot," Tuesdays at 7:30 p.m.

"Marian McPartland's Piano Jazz," Thursdays at 8 p.m.

"Latin Beat," Fridays at 7:30 p.m.

"Jazz Alive!" Saturdays at 8 p.m.

**DISCOVER**  
**WEPR-FM 90**

**Public Radio... A World of Difference**



## ACCOUNTING AND FINANCE

Thaddeus Bismack (Assoc Prof) spoke on "Auditing of Forecasts" to the Western Carolina Chapter, Institute of Internal Auditors in Greenville Sept. 9.

## AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

M. S. Henry (Assoc Prof) chaired a session on "Regional Economic Development" at the First Work Congress of Regional Science held at Harvard University, Cambridge, Mass., June 20.

J. C. Hite (Prof) and D. W. Hughes (Grad Res Asst) are authors of "Annual Literature Review: Economics," in the June 1980 Journal of Water Pollution Control Federation.

## BIOCHEMISTRY

Carolyn Brown (Asst Prof) presented a seminar, "Derivation and Biochemistry of the Melanoma Cell," to the Department of Biology, Winthrop College, Rock Hill and an NSF program, "Opportunities in Science and Engineering," to a group of interested students at Winthrop.

## CHEMISTRY AND GEOLOGY

Clemson's Student Affiliate Chapter of the American Chemical Society has been named one of the 29 outstanding chapters in the United States for the 1979-80 year. It was recognized for overall excellence of its program as outlined in its annual report. This selection was made from hundreds of chapters considered in the United States. The co-presidents of the chapter for 1979-1980 were Christopher B. Cooper and Rena Lineberger. The faculty advisor is Prof. Carl B. Bishop.

A. R. Pinder (Calhoun Prof) has published a paper, "Further Synthetic Investigations in the Eremophilane Sesquiterpene Group. Synthesis of (+)Isovalencenic Acid, (+)-Isovalencenol,

and Their (Z)-Isomers, and Experiments Directed Towards the Synthesis of Tessaric Acid," in the Journal of the Chemical Society, Perkin Transactions I, (1980) 1752.

## DAIRY SCIENCE

J. H. Martin (Hd and Prof) received the American Cultured Dairy Products Institute award of \$1,000 for "excellence in research" and the American Dairy Science Association award of \$1,500 for "excellence in teaching."

## ECONOMICS

Rex L. Cottle (Assoc Prof and Hd) gave a speech, "The Current State of Inflation," to the Oconee Retired Teachers Association Sept. 3 at the Holiday Inn, Clemson.

Bruce Yandle (Prof) has an article, "Fuel Efficiency by Government Mandate: A Cost-Benefit Analysis," in Policy Analysis, 6, No. 3 (1980), 291-304.

## ENGINEERING TECHNOLOGY

Carl R. Lindenmeyer (Assoc Prof) presented a paper, "Productivity: Industrial and Health Care Measures, Measurement Techniques, and Opportunities for Improvement," as part of a one-day Productivity Seminar sponsored by the Greenville Hospital System Sept. 23.

Prof. Lindenmeyer and William Kast had their article, "Designing for Function: An Approach to Health Care Cost Containment," included in Chapter 3 of Cost Containment in Hospitals, edited by Efraim Turban, published by Aspen Systems Corporation, Germantown, Md., May 1980. This article was first published in Industrial Management, 19, No. 5 (1977).

## ENGLISH

Carol Johnston (Vstg Asst Prof) published "The Underlying Structure of the Divinity School Address: Emerson as Jeremiah" in

Studies in the American Renaissance  
(Boston: Twayne, 1980), pp. 41-49.

Fred Shilstone (Assoc Prof) read "Empathy Sympathy, and George Willard's Development in Winesburg, Ohio" at the Fifth Annual Colloquium on Modern Literature: The Romantic Presence, at West Virginia University, Morgantown, Sept. 11-13.

#### ENVIRONMENTAL SYSTEMS ENGINEERING

A. Ray Abernathy (Prof) presented an invited paper, "The Easley, S. C., Overland Flow Project," at a National Seminar on Overland Flow Technology for Municipal Wastewater, in Dallas, Tex., Sept. 16-18.

#### EXTENSION HOME ECONOMICS

Myrle L. Swicegood (Prof and State Leader has contributed to Serving Personal and Community Needs Through Adult Education. She is the editor of the chapter "Family Life Education." Chief editor is E. J. Boone, (Asst Ext Dir, N. C. Agric Ext Serv). The 338-page handbook on the various programs available in adult education was sponsored by the Adult Education Association of the U. S. A. and published by Jossey-Bass Inc., San Francisco.

#### HISTORY

Elizabeth Carney (Asst Prof) has published an article, "Alexander the Lyncestian: The Disloyal Opposition," in Greek, Roman and Byzantine Studies, 20 (1980).

#### HISTORY AND VISUAL STUDIES

Samuel Wang (Prof) was one of 18 artists from the Southeast invited to participate in an exhibition, "Southeast Graphics Invitational -- Photography," at the Mint Museum of Art, Charlotte, N.C., Sept. 9 - Nov. 2.

Also, Prof. Wang and Eliska Greenspoon (Grad Stu) have works selected for the

"Southeastern Photography Competition" shown at the Greenville County Museum of Art, Sept. 13 - Oct. 19. One of Prof. Wang's photographs was also purchased by the museum for its permanent collection.

#### INDUSTRIAL MANAGEMENT

The Textile Quality Control Association met at the Myrtle Beach Hilton Hotel Sept. 11-12. Evans A. LaRoche (Prof) presented a paper, "Sampling for Product Acceptance," to the approximately 90 persons in attendance Sept. 11.

#### INTERDISCIPLINARY STUDIES

Joon B. Park (Assoc Prof) has received a \$34,062 continuation grant from the National Institute of Health to study "Implant Fixation in Bone by Electrical Stimulation." This is the fourth year of the support. The co-investigators are Andreas F. von Recum (Prof) and Gerry H. Kenner (Assoc Prof).

Prof. Park published a paper, "Preliminary Studies on the Effects of Direct Current on the Bone/Porous Implant Interfaces," in Annals of Biomedical Engineering, 8, (1980) 93-101. Co-authors were Naser N. Salman (Grad Stu) and Profs. Kenner and von Recum.

Francis W. Cooke (Hd and Prof) and Prof. Park participated in the "Society for Biomaterials" council meeting in Washington, D.C. Prof. Cooke is chairman of the Honors and Awards Committee and Prof. Park is chairman of the Membership Committee. At the meeting, Prof. Cooke was elected assistant editor of the Journal of Biomedical Materials Research, the official journal of the society. Prof. Cooke is a past president of the society, which was founded at Clemson in 1975.

#### LANGUAGES

John B. Romeiser (Asst Prof) was a reader in French language for the Advanced Placement examinations at Rider College,

N.J., June 6-11. He also participated in a seminar on the French economy at the Centre Parisien de Management, June 23-27. The seminar was sponsored by the Paris Chamber of Commerce and Industry.

Prof. Roeiser's book, Critical Reception in the French Press to Andre Malraux's LiEspoir: December 1937--June 1940, was published this summer by Romance Monographs, Inc., Exford, Miss.

Margit M. Sinka (Assoc Prof) conducted a workshop on modern methods of teaching German composition and conversation Aug. 13 at Unicoi State Park, Ga., during a summer camp for high school German instructors. The camp was sponsored by Atlanta universities and the Atlanta Goethe Institute.

#### MECHANICAL ENGINEERING

James G. Goree (Prof) and Robert S. Gross (former grad stu now with Naval Surface Weapons Center in White Oak, Md) had a paper, "Analysis of a Unidirectional Composite Containing Broken Fibers and Matrix Damage," published in the Engineering Fracture Mechanics Journal, 13, No. 3, 563-578.

#### PHYSICS AND ASTRONOMY

P. B. Burt (Prof) published a paper, "Multidimensional Kink Solutions of the Double Sine Gordon Equation," in Letters to Nuovo Cimento, 28, 104 (1980).

John R. Ray (Prof) presented a colloquium, "Time-Dependent Invariants and Non-linear Equations of Motion," at the University of South Carolina Sept. 25.

John P. McKelvey (Hd and Prof) gave an invited lecture, "Exactly Soluble Models for Anharmonic Atomic Oscillations in Crystals," at the Department of Physics and Astronomy at the Citadel, Charleston Sept. 17.

J. M. Haile (Assoc Prof, Chem Engr) and H. W. Graben (Prof) have published a paper, "Molecular Dynamics Simulations

Extended to Various Ensembles. I. Equilibrium Properties in the Isoenthalpic-Isobaric Ensemble," J. Chem. Phys., 73, 2412 (1980).

John R. Ray (Prof) and James L. Reid (Adj Prof) recently published a paper, "Ermakov Systems, Noether's Theorem and the Sorlet-Bahar Method," in Letters in Mathematical Physics, 4, (1980) 235-240.

R. Cecil Gentry (Vstg Prof, Atmospheric Physics) gave a seminar, "Recent Research on Hurricanes," to the Central South Carolina Chapter of the American Meteorological Society at Columbia Sept. 23.

#### POULTRY SCIENCE

Bobby D. Barnett (Prof and Hd) will be working with the U. S. Department of Agriculture's Science and Education Administration, Office of Cooperative Research, Washington, D. C., until June 1981. He joined that staff Oct. 1 under the Intergovernmental Personnel Act.

#### PROFESSIONAL DEVELOPMENT

J. C. Hubbard Jr. (Prof, Text) is chairperson for a two-day conference, "Slashing: Today and Tomorrow," to be held on campus Nov. 11-12.

#### TEXTILES

M. J. Drews (Assoc Prof) presided over two sessions of the "Symposium on Recent Aspects of Polymer Flammability" at the American Chemical Society meeting in Las Vegas, Nev., Aug. 25-29.

Other papers presented at the meeting were:

-- C. W. Jarvis (Asst Prof), Prof. Drews and J. E. Leibner (Former Post-Doctorate), "Organobromine/Antimony Oxide/Polymer Substrate Interactions in the Solid Phase. I. Binary Interactions."

-- Prof. Drews, "A Calorimetric Investigation into the Efficiencies of Organo-



halogen/Antimony Oxide Additives in Thermoplastics."

-- K. A. Jakes (Former Grad Stu) and Prof. Drews, "Role of Oxygen in the Horizontal Flame Spread of Polypropylene."

Prof. Drews and Prof. Jarvis are co-principal investigators on a grant from the National Bureau of Standards to study "Ternary Reactions Among Polymer Substrate-Organohalogen-Antimony Oxide in the Condensed Phase Under Pyrolytic, Oxidative, and Flaming Conditions." The grant for \$123,608 represents a two-year renewal of a previous one-year grant from the National Bureau of Standards. As part of the grant, Prof. Drews will be spending the fall semester at the National Bureau of Standards in Gaithersburg, Md.

#### UNIVERSITY UNION

Bill Mandicott (Prog Dir) and Marcia Kennard Kiessling (Asst Prog Dir) coordinated a one-day drive-in workshop "Understanding the South Carolina Arts

Commission," Aug. 5 at Clemson. The workshop was sponsored by the S. C. Arts Commission and was designed to introduce other state agencies to the commission and to basic techniques for writing grants. Over 35 delegates from state arts agencies and institutions of higher education attended.

#### ZOOLOGY

John Wourms (Assoc Prof) has been awarded a one-year grant of \$10,000 by the South Carolina Sea Grant Association to research "Reproduction and Development of Sharks and Rays."

Marc Zimmerman (Res Assoc) attended and presented a paper, "High Frequency Energy Exchange and Mixing Dynamics of Lakes," at the XXI Congress of the International Association of Theoretical and Applied Limnology held in Kyoto, Japan, Aug. 24-31. Co-authors of this paper were M. J. Zimmerman, M. C. Waldron (Grad Stu), S. P. Schreiner (Grad Stu), M. L. Freedman (Grad Stu), P. A. Giammatteo (Grad Stu), J. J. Hains (Grad Stu), J. M. Nestler (Res Assoc), B. J. Speziale (Grad Stu) and J. E. Schindler (Prof).

## Calendar of Campus Events

### NOVEMBER 1980

- 1 -- Engineer-In-Training Examination, Part I. Sponsored by College of Engineering, 226 Riggs Hall, 7:30 a.m. - 5 p.m. Open to senior students in the professional engineering curricula who have been approved to take the exam.
- 1 -- Children's Literature Symposium. British children's writer Nina Bawden and 1979 Caldecott Medalist Peter Spier will be special guests. Co-sponsored by Department of English and College of Liberal Arts, Daniel Hall, 8:30 a.m. - 3 p.m. Open to adults working with children or with an interest in children's literature, \$5 registration fee.
- 2 -- Free Flick: "White Line Fever." Sponsored by University Union, YMCA Theater, 8 p.m.



## Calendar of Campus Events (Cont.)

- 2 -- Soccer: University of Maryland, here, 2 p.m.
- 3-8 -- Drama: Buried Child by Sam Shephard. Clemson Players' production, Daniel Auditorium. Monday - Wednesday and Friday - Saturday, 8 p.m.; Thursday, 3:30 p.m. Open to the public, free with University I.D., \$1 admission charge without I.D. Parental discretion advised.
- 3-24-- Art Exhibition: "National Sculpture 1980." The 15th annual exhibition sponsored by the Southern Association of Sculptures; contains 34 works by 31 sculptors. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 4 -- Election Day, classes suspended.
- 5 -- English Hour Reading: A poetry reading by Prof. Edward P. Willey. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.
- 5 -- Short Course: "Backgammon" begins. Details and sign up at Union Information Desk.
- 8 -- Football: University of North Carolina, here, 1 p.m.
- 9 -- Free Flick: "The Beatles at Shea Stadium." Sponsored by University Union, YMCA Theater, 8 p.m.
- 9 -- Soccer: University of Virginia, here, 2 p.m.
- 10-16 -- Videotape: "Gladys Knight and the Pips with Ray Charles." Sponsored by University Union, loggia, shown on request.
- 12-13 -- Workshop: "Chlorination." Sponsored by Water and Wastewater Operator Training Program, call 656-3276 for more information.
- 12 -- Lecture: Vincent Bugliosi, one of the nation's foremost prosecutors, speaks on the trial of Charles Manson and the American judicial system. Sponsored by Speakers Bureau, Brackett Auditorium, 7 p.m. Open to the public, no admission charge.
- 13 -- Lecture: "Women Lawyers in the American West" by John Wunder, professor of legal history at Texas Tech University. Sponsored by History Department, Hardin Hall Auditorium, 4 p.m. Open to the public, no admission charge.
- 13 -- Performing Artist Series: Trent Arterberry, a mime artist. Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public, tickets may be purchased in advance from the Union Program Office on the loggia or at the door for \$2.

## WEEKDAY SCHEDULE -- WEPR

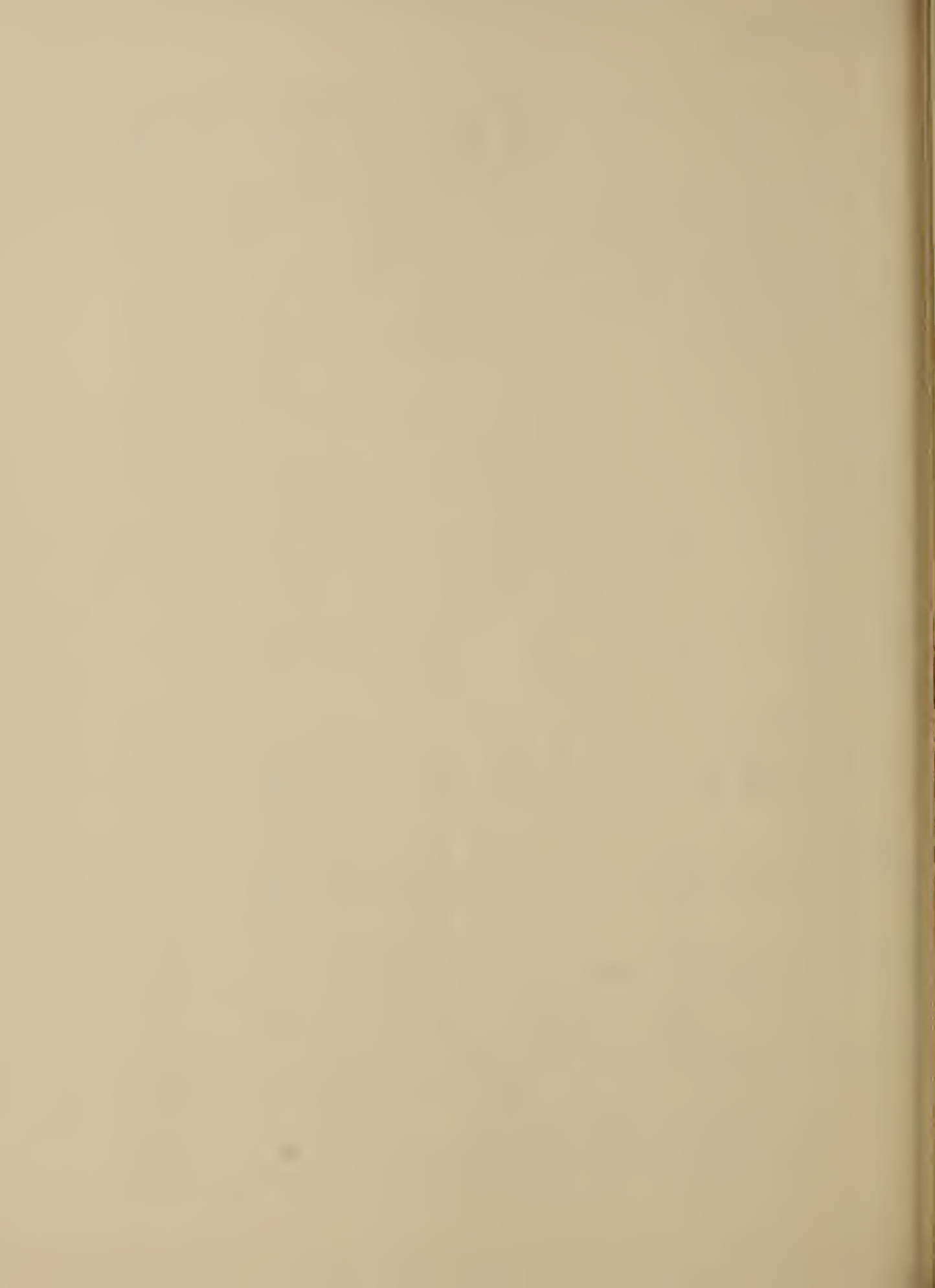
| Time     | Monday                | Tuesday                    | Wednesday                    | Thursday              | Friday              |
|----------|-----------------------|----------------------------|------------------------------|-----------------------|---------------------|
| 6-8      | Morning Edition*      |                            |                              |                       |                     |
| 8-8:30   | Radio Reader          |                            |                              |                       |                     |
| 8:30-4   | Instructional Radio   |                            |                              |                       |                     |
| 4-4:30   | My Word               | Conservations with Alice   | News Quiz                    | Apple a Day           | Leaders & Trailers* |
| 4:30-5   | Drive Time*           |                            |                              |                       |                     |
| 5-6:30   | All Things Considered |                            |                              |                       |                     |
| 6:30-7   | Options in Education  |                            | Horizons                     | Majors & Minors       | Communique          |
| 7-7:30   | Essence of Jazz**     | Jazz Revisited             | Ballads, Bards, & Bagpipes** |                       | Radio Smithsonian   |
| 7:30-8   |                       | Jazz Sopt*                 |                              |                       | Latin Beat*         |
| 8-9      | Brahms Banquet        | International Concert Hall | NY Phil-harmonic             | McPartland Piano Jazz | Little Night Music* |
| 9-10     |                       |                            |                              | Question of Place     |                     |
| 10-11    | Mind's Ear            |                            |                              |                       |                     |
| 11-12    | First Hearing         | In Recital                 | BBC Promenade                | Vocal Scene           | America in Concert* |
| 12-12:30 | Melody Time           | Music from Germany         | French Music                 | Enfoque Nacional      | Talking About Music |

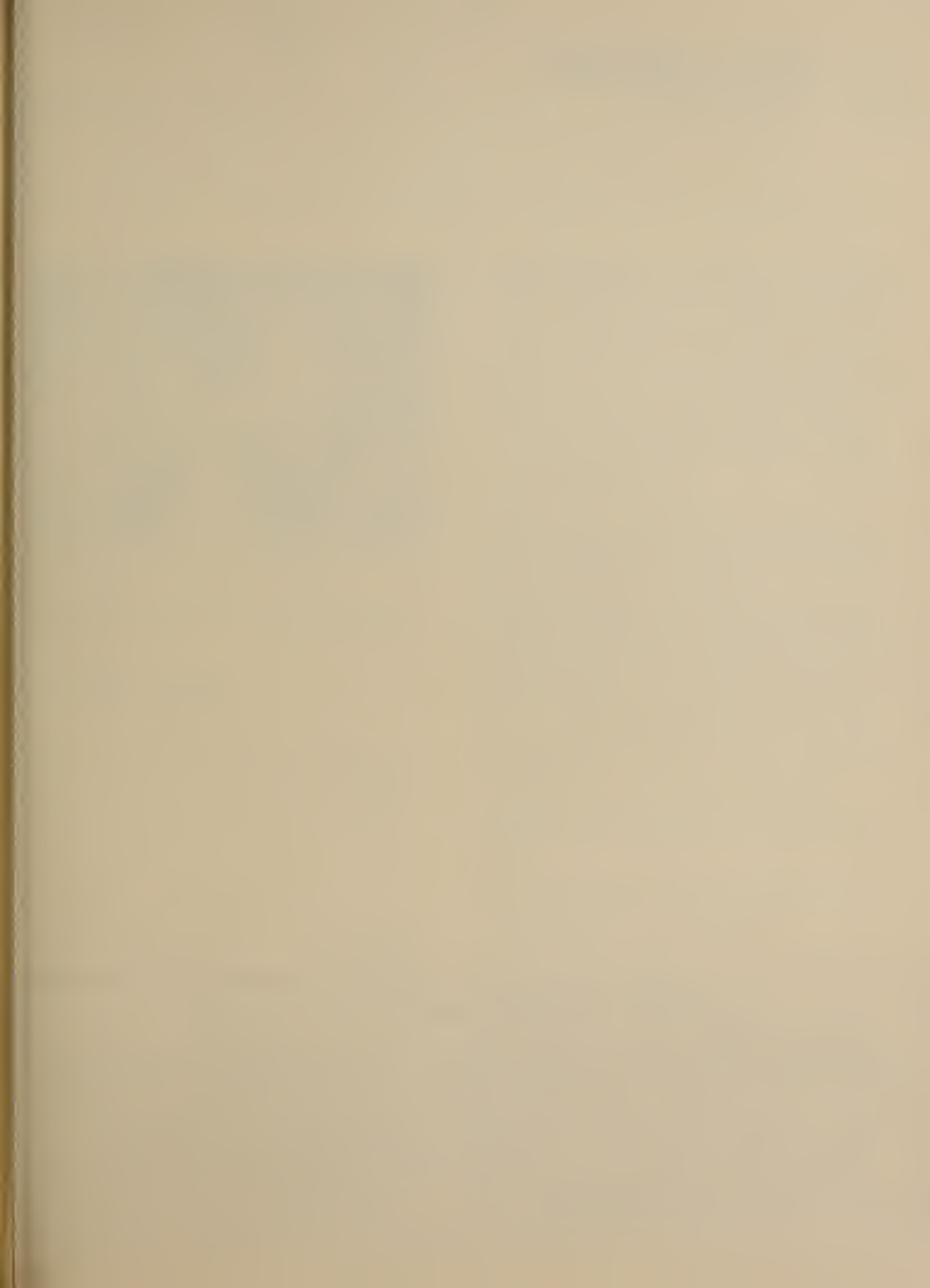
\*Produced by the University station of WEPR

\*\*Funded by contributions to the University Fund for Radio

## WEEKEND SCHEDULE -- WEPR

| Time     | Saturday               | Sunday               |
|----------|------------------------|----------------------|
| 6-11     | Mosaics                | Daybreak             |
| 11-12    | Fitzgerald             |                      |
| 12-12:30 | Masterpiece Theater    |                      |
| 12:30-1  |                        |                      |
| 1-1:30   | Washington Week Review | NPR Recital Hall     |
| 1:30-2   | Backstage              |                      |
| 2-2:30   | I Hear America*        |                      |
| 2:30-3   |                        | Plots & Prologues*   |
| 3-5      | Folk Festival          | Chicago Symphony     |
| 5-6      | All Things Considered  |                      |
| 6-7      | Prairie Home Companion | Options in Education |
| 7-8      |                        | Remember When        |
| 8-9:30   |                        | Works of Fitzgerald  |
| 9:30-10  | Jazz Alive             | Mosaics              |
| 10-11    | Mind's Ear             |                      |
| 11-12    | Stardust Ballroom      | Earplay              |
| 12-12:30 |                        | Auditorium Organ     |







### **PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL**

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

NOV 7 1980

**NEWSLETTER**INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITYNovember 1, 1980  
Vol. 20 No. 6

**BILL WERNER**, the Physical Plant's employee-of-the-year, checks a printout from the University's "environmental computer."

#### **BILL WERNER SELECTED EMPLOYEE-OF-THE-YEAR**

Bill Werner, the Physical Plant Division's 1980 employee-of-the-year, keeps his cool -- as well as the cool of most everyone else at the University.

He also has much to do with keeping us warm in winter.

And he plays an important role in the campus fire alarm network.

He does it all with what he calls "an environmental computer": a Honeywell System 11-C, the University's automated air conditioning monitoring and control system.

When a fire alarm is activated on campus, the same system identifies the building where the alarm is.

Werner was named employee-of-the-year at the Physical Plant's annual employees' picnic Sept. 18. He was selected by a committee which considered nominees from the division's four departments (administration, buildings, grounds and util-

ities), according to Dan Herr, facilities design associate, who chaired the selection committee and coordinated the picnic.

Werner, who works in the Utilities Department, joined the University in 1971. Before that he spent 20 years in the Air Force, first as a B-26 aerial gunner during the Korean War and then, for 16 years, as an aviation electronics superintendent and aviation electronics instructor supervisor.

"I had to teach myself to run it," Werner said in describing the Honeywell 11-C he maintains. "Parts are hard to come by anymore," he added.

"A prime example of Bill's outstanding capability in the electronics field is the fact the Honeywell 11-C is the only system of its kind in existence, and parts are no longer manufactured for it. But Bill makes it work, and we are able to use it to our advantage," said Jim Hanna, plant engineer for the Utilities Department.

"Bill does his job with a minimum of supervision, enjoys his work, and delights in seeing a job well done," Hanna said.

A graduate of Ware Shoals High School and a student at Clemson from 1947 until 1949, Werner lives in Seneca.

#### **November's the Month for Insurance Changes**

If you want to make changes in your Blue Cross/Blue Shield insurance coverage, November's the time to do it, according to Ron Herrin, director of payrolls and employee benefit programs.

Nov. 1-30 is "open enrollment" (or "re-work") period for state health insurance programs, giving employees a chance to make insurance changes not permitted at any other time of the year.

November is also open enrollment time for the cancer coverage programs offered by the University

If you plan to alter your insurance coverage, contact the Payroll/Insurance Office (G13 Sikes Hall, ext. 2000). The effective date of all changes will be Dec. 1.

Herrin said everyone should take special note of an important improvement in major medical coverage. Effective July 1, the lifetime maximum provided for under Blue Cross/Blue Shield coverage has been increased from \$50,000 to \$250,000 per member.

He also said employees should make sure their coverage on dependents meets the following eligibility requirements:

--Health and life insurance coverage is limited to the employee's spouse and unmarried children less than 23 years old. (This includes natural and adopted children dependent on the employee for at least 51 percent of their support.)

--Children cease being eligible dependents if they get married or if they become employed on a permanent, full-time basis.

--The 23-year age limit does not apply to a dependent child incapable of self-support because of mental retardation or physical handicap, as long as the employee is responsible for at least 51 percent of the child's support.

#### OFFICES TO MOVE TO DANIEL HOUSE

The Offices of Deferred Giving and Estate Planning, Corporate Relations and the Clemson University Foundation have a new home.

It's the D. W. Daniel house at 110 Daniel Drive.

Purchased by the Alumni Association with money from the Association's reserve fund and investments income, the house has been rented to the Foundation and will be headquarters for a major fund-raising campaign presently under development by the University, according to Jim Strom, corporate relations director.

"We are delighted to have use of the Daniel house accommodations. We feel this move will be a big plus for the University's fund-raising efforts," Strom said.

Moving with Strom to the Daniel house (ext. 2121) will be Horace Harby, director of deferred giving and estate planning; Marie Staedeli, staff assistant; and Chris Stroble, Dolline Breed and Betty Jean Watson, secretaries.

#### Other Relocations

According to Mark Wright, assistant campus master planner, other University offices which have been or soon will be relocated include the Office of Grants and Contracts and the Personnel Office.

Grants and Contracts, formerly within the Office of Budgets and Planning (206 Sikes), has moved to 302 Sikes (ext. 2424).

The Personnel Offices, now on the ground floor of Sikes, will move to the Anderson House on Highway 93 (across from the tennis courts) as soon as necessary modifications to the house are completed.

Ray Thompson, personnel director, said he expects the move to the Anderson house to occur by the end of November.

The offices of women's basketball coach Annie Tribble moved from Fike to Jervey at the beginning of fall semester.

The internal auditor's office, already in Fike, expanded into the space formerly occupied by Tribble's staff.

#### THERMOSTATS ADJUSTED FOR WINTER MONTHS

Thermostats in all campus buildings have been adjusted from the summer setting of 78 degrees F. to the winter setting of 65 degrees F., according to Walter Stone Physical Plant director.

Stone said the adjustments were made in compliance with the State Budget and Control Board's order of May 13 that all state buildings keep temperature settings of 65 degrees during winter months.

He said Physical Plant personnel have adjusted the mechanical systems in each





#### FUTURE FIREFIGHTERS?--

Firefighter Dean Brown (left) and Lt. Lew Riley of the University Fire Department get an assist with a fire hose from Molly Simpson (left) and Shayne Finch, class members of Clemson's Playtime Nursery School.

The class, under the supervision of Playtime's owner and director Lorene Burns, toured the fire station Oct. 23.

Molly is the daughter of Mr. and Mrs. Bill Simpson of Clemson. Shayne's parents are Mr. and Mrs. Jerry Finch of Seneca.

building for best operating conditions and energy conservation.

In a memo to deans, directors and department heads Oct. 1, Stone said only Physical Plant personnel are authorized to change thermostat settings and adjust mechanical equipment.

He said every effort will be made to keep cooling equipment from coming on to hold temperatures at 65 degrees, but the mechanical systems in some buildings may cause this to happen.

It will not be necessary to refile for previously awarded temperature exemptions and/or exceptions, he added.

"As always, it is our goal to serve you," Stone said, "and we appreciate your cooperation and support."

Anyone noting a malfunction in a building's heating/cooling system should call the Physical Plant (ext. 2186).

#### CORRECTION

Dick Simmons, assistant director of personnel, is a permanent member of the University Group Insurance Committee recently established by President Atchley.

In the Oct. 15 "Newsletter," Simmons was incorrectly identified as Richard F. Stone.

#### AGRICULTURAL ENGINEERING

Joe M. Bunn (Prof), W. Harold Allen (Assoc Prof), Fred A. Payne (Asst Prof), Darrell L. Roberts (Prof) and Clyde L. Barth (Prof) attended the ASAE National Energy Symposium in Kansas City, Mo., Sept. 29-Oct. 1.

Papers presented were:

--"The Potential for Direct Burning of Ethanol as Fuel for On-Farm Uses" by G. D. Christenbury (Assoc Prof) and Profs. Bunn and Roberts.



--"Probability Design of a Solar Augmented Heat Pump System for Multiple Farmstead Applications" by D. K. Gupta (Former Grad Stu) and Prof. Allen.

--"Gasification - Combustion of Biomass for Drying Corn" by Prof. Payne and I. J. Ross, J. N. Walker and R. Brashear (Univ. of Ky).

Robert E. Williamson (Assoc Prof) is principal investigator of a \$400,000 project, "Development of a Mechanized Meadow Orchard System for Fresh Market Peaches," recently funded by the Bi-national Agricultural Research and Development Fund. Other investigators include Clarence E. Hood (Prof), D. C. Coston (Asst Prof, Hort) and E. Ted Sims Jr. (Prof, Hort). The project also involves the Department of Horticulture at the University of Georgia and the departments of Horticulture and Agricultural Engineering at the Agricultural Engineering Institute in Israel.

Gaines E. Miles (Assoc Prof) has received a \$15,000 continuation grant from the American Soybean Association for "An Automatic Controller to Improve Harvest Efficiencies and Reduce Soybean Damage: Development of Controller Algorithms."

Two visiting faculty members from Israel recently joined the department for one year. Amikam Margolin (Vstg Inst), from the Agricultural Engineering Institute at Bet Dagan, will work on development of a green onion harvester. Israel Israeli (Vstg Inst), from the Techion in Heifa, will assist with development of computerized irrigation scheduling.

#### AGRONOMY AND SOILS

J. A. Martini (Prof) has published the second edition of the laboratory manual used in AGRON 202, "Principles and Exercises for Introductory Soil Science." 273 pp.

#### ARCHITECTURAL STUDIES

Twenty-five third-year design students, under the direction of D. L. Collins and J. E. Dalton (Profs), submitted entries Sept. 16 in Columbia in the Old Exchange Building Commission's design competition for a logo to be used in promoting the

Old Exchange Building in Charleston. One hundred and fourteen entries competed for six cash prizes. Kurt Fletcher (jun) won first prize of \$500; Hark Hopper (jun) won second prize of \$300; Charles Muldrow (jun) won 3rd prize of \$50.

#### COUNSELING CENTER

Programs presented at the 17th annual Southeastern Conference of Counseling Center Personnel, Oct. 15-17, in Louisville, Ky., included:

--Fred Steele (Dir) and Lucy Reddick (Stu Coun I), "Time Management for Counselors and for Clients."

--Mike Vinson (Psych III) and Reddick, "Outreach to Campus Police: Workshops on Coping with Stress and Developing Effective Interpersonal Skills."

--Vinson, "Weight Control Groups for College Students."

#### FOOD SCIENCE

Terry C. Titus (Prof) presented a paper, "Seafood Waste Management in South Carolina," Sept. 23-25 in Orlando, Fla., at the Conference on Seafood Waste Management in the 1980's.

Woodie P. Williams (Dept Hd) has been awarded a \$89,199 contract, "A Course in Nutrition Education for Teachers of Grades 1-6 in South Carolina," with the South Carolina Department of Education.

#### 4-H

Russell Roberts (Assoc Prof) was elected president of the South Carolina section of the American Camping Association at a regional meeting of the organization Sept. 24. Prof. Roberts is director for both 4-H Camp Long in Aiken and 4-H Camp Bob Cooper near Manning. Both are state-owned and operated 4-H camps accredited by the American Camping Association.

#### HISTORY

Edwin E. Moise (Vstg Asst Prof) has published "Class-ism in North Vietnam, 1953-56," in Vietnamese Communism in Comparative Perspective, edited by

William S. Turley (Westview Press, 1980) pp. 91-105.

J. V. Reel Jr. (Prof) moderated a panel discussion, "Opera and Youth," at the National Opera Association Conference in Birmingham, Ala., Oct. 1-4.

Alan Schaffer (Hd) has been elected vice chairman of the South Carolina Commission on Archives and History.

## LANGUAGES

Presiding at sessions during the Southern Conference on Language Teaching Oct. 2-4 in Charleston were:

--JoAnn McNatt (Asst Prof, Fr), "Drama to Teach Languages."

--Rob Roy McGregor (Prof, Fr), "New Directions in Latin for the Eighties."

--H. E. Stewart (Prof, Fr and Hd), "Aw, Do I Have To: Pattern Drills."

Edwin Arnold (Asst Prof, Ger) has been elected president of the South Carolina Chapter of the American Association of Teachers of German.

## MATHEMATICAL SCIENCES

P. M. Dearing (Assoc Prof) served as program co-chairman (with George Worm, Assoc Prof, IM) of the 16th annual meeting of the Southeastern Chapter of the Institute of Management Sciences, Oct. 8-9, at Virginia Beach, Va.

John Kenelly (Prof) represented the University and The Mathematical Association of America Oct. 8, when he visited Middle Tennessee State University in Murfreesboro. The visit was sponsored by the MAA's visiting lecture program, and Prof. Kenelly's address was "Change's Change--The Trend Marker."

Prof. Kenelly has an article, "Don't Forget the Graphs After You Get Into the Calculus," in Looking at Calculus--Perspectives for Teachers, a booklet recently published by the association of Advanced Placement Mathematics Teachers in New England.

C. B. Russell (Assoc Prof) presented a paper, "Sampling for Confidence Interval Estimation of the Fiber Shape Factor,"

at the 1980 annual Textile Industries Conference and Exhibit in Atlanta Oct. 7.

Richard D. Ringeisen (Assoc Prof and Assoc Hd) and H. Joseph Straight (Vstg Asst Prof) have had a paper, "The Chromatic Index of a Graph," published in Discrete Mathematics, 31 (1980) 153-159. The paper was written with Lowell Beineke of Indiana-Purdue University at Fort Wayne.

## MUSIC

John H. Butler (Prof and Hd, Acting Dean Lib Arts) sang the lead role of Ko-Ko in the Greenville Savoyards' production of Gilbert and Sullivan's operetta, The Mikado, Oct. 2-11.

Edith B. Card (Asst Prof) conducted a workshop for elementary school classroom teachers in Anderson District V, Sept. 29 in Anderson. The emphasis was on playing the recorder and reading music.

## NURSING

Ann Rawlings (Vstg Instr) has received CCRN certification from the American Association of Critical-Care Nurses. This certification was achieved by passing a comprehensive examination in advanced critical care nursing.

Betty Brown (Vstg Assoc Prof) was the first speaker in the program "What's Happening to Me?"--a course in health, aging and prevention of disease for persons in the community 55 years of age and older. The program, presented by Fort Hill Presbyterian Church at 10:30 a.m. on Thursdays, began Oct. 16.

## PLANNING STUDIES

Glenn E. Varenhorst (Assoc Prof) has initiated a research project, "A Study of the Role of City Government Operations and Planning in Water Conservation," based on a grant from the University's Water Resources Research Institute. While it has been funded for one year, the project is scheduled for two years.

## PLANT PEST REGULATORY SERVICE

Neil Ogg (Pesticide Coord) and Caron

Gentry (Reg Spec) presented a report of structural pest activities in South Carolina during 1979 at the 20th annual meeting of the Association of Structural Pest Control Regulatory Officials at Winston-Salem, N.C., Oct. 6-8. Ogg was elected vice president (president-elect) of this national association.

#### POLITICAL SCIENCE

Charles W. Dunn (Prof and Hd) spoke at the South Carolina meeting of the American Association of University Professors, Oct. 11, on "Professors and Politicians: Removing Cloaks of Innocence and Ignorance."

#### PROFESSIONAL DEVELOPMENT

Thomas D. Efland (Acting Dean, IM&TS) is course chairperson for a two-day conference, "Knit Fabric Construction, Specifications and Properties," to be held

here Nov. 17-18.

J. Michael McDonald (Assoc Prof, IM) is lecturer for a one-day seminar, "Effective Time Management," to be held here Nov. 19.

#### RECREATION AND PARK ADMINISTRATION

Brian J. Mihalik (Asst Prof) made a presentation, "The Role of a Recreation Advisory Council in Municipal Government," to the City of Charleston Park and Recreation Advisory Board Sept. 22.

Paul Richard Saunders (Asst Prof) conducted a three-week short course, "Professional Development for Outdoor Recreation Management," for recreation managers, resource managers, planners and policy analysts, Sept. 14-Oct. 3. Twenty-four participants were from the U. S. Forest Service, one from the Tennessee Valley Authority and one from the Congressional Research Service.

## Calendar of Campus Events

### NOVEMBER 1980

- 15-16 -- Rugby: ACC Tournament, here, time to be announced.
- 15-16 -- National Pershing Rifle Tactics Meet. Sponsored by 4th Regt. Pershing Rifles.
- 15 -- Declamation Contest. High School students recite poetry in different languages for prizes. Sponsored by Languages Department, Daniel Hall, 7 a.m. - 3 p.m. Open to high school students and teachers. Call 656-3393 for more information.
- 15 -- Workshop: "Techniques of Venipuncture" conducted by Ann Rawlings, visiting instructor of nursing. Sponsored by College of Nursing Continuing Education Department, open to R.N.'s and L.P.N.'s. Call 656-3078 for more information.
- 16 -- Free Flick: "Deliverance." Sponsored by University Union, YMCA Theater, 8 p.m.
- 17 -- Trustees' Medal Oratory Contest Finals. Co-sponsored by Clemson Forensic Union, Calhoun Forensic Society and English Department, Daniel Auditorium, 8-9 p.m. Open to the public, no admission charge.



## Calendar of Campus Events (Cont.)

## NOVEMBER 1980

- 17 -- Lecture: "International Fertilizer Development" by Dr. William D. Bishop of the International Fertilizer Development Center in Florence, Ala. Sponsored by Agronomy and Soils Department, A-203 P&AS Building, 11:15 a.m. and 3:45 p.m. Open to the public, no admission charge.
- 17-19 -- Movie: "Being There." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 17 -- German Film: "The Lost Honor of Katharina Blum." Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 18 -- Concert: David Rife in a violin recital accompanied by pianist Linda Barlage. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 20 -- Seminar: William Bricker, chairman of the board of Diamond Shamrock Corp. Sponsored by Distinguished Chemical Industry Business Seminar series, 2:30 p.m. in Earle Hall Auditorium, 4:30 p.m. in 131 Brackett Hall. Open to the public, no admission charge.
- 20-22,-- Movie: "Caddyshack." Sponsored by University Union, YMCA Theater, 8  
24-26 p.m.
- 22 -- Football: University of South Carolina, here, 1 p.m.
- 23 -- Free Flick: "Godspell." Sponsored by University Union, YMCA Theater, 8 p.m.
- 24-12/5 -- Art Exhibition: "Architectural Thesis and Terminal Project Reviews," projects representing the culmination of six years of study in the College of Architecture. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 24-12/5 -- Room change period, submit application to Housing Office.
- 26 -- Thanksgiving holidays begin after last class.
- 28-29 -- Basketball: IPTAY Invitational Tournament, here.



# WEPR

## WEEKDAY SCHEDULE

| Time        | Monday                          | Tuesday                    | Wednesday                    | Thursday              | Friday              |
|-------------|---------------------------------|----------------------------|------------------------------|-----------------------|---------------------|
| 6-8         |                                 | Morning Edition*           |                              |                       |                     |
| 8-8:30      |                                 | Radio Reader               |                              |                       |                     |
| 8:30-4      |                                 | Instructional Radio        |                              |                       |                     |
| 4-4:30      | My Word                         | Conversations with Alice   | News Quiz                    | Apple a Day           | Leaders & Trailers* |
| 4:30-5      | Drive Time*                     |                            |                              |                       |                     |
| 5-6:30      | All Things Considered           |                            |                              |                       |                     |
| 6:30-7      | Options in Education            |                            | Horizons                     | BBC Science           | Communique          |
| 7-7:30      | Jazz Revisited                  | Jazz                       | Ballads, Bards, & Bagpipes** | Gifts of Music        | Radio Smithsonian   |
| 7:30-8      | Jazzspot*                       |                            |                              |                       | Latin Beat*         |
| 8-9         | American Chamber Music Festival | International Concert Hall | NY Phil-harmonic             | McPartland Piano Jazz | Little Night Music* |
| 9-10        |                                 |                            |                              | Question of Place     |                     |
| 10-10:30    | Auditorium Organ                | Radio International        |                              |                       |                     |
| 10:30-11    | Music from Germany              |                            | The Attentive Ear            | Majors and Minors*    | Performance*        |
| 11-11:30    | Talk About Music                | Early Music                |                              |                       |                     |
| 11:30-12:30 | 1st Hearing                     | In Recital                 | BBC Promenade                | Vocal Scene           | America in Concert  |

## WEEKEND SCHEDULE

| Time     | Saturday               | Sunday              |
|----------|------------------------|---------------------|
| 6-11     | Mosaics                |                     |
| 11-12    | Fitzgerald             | Daybreak            |
| 12-12:30 | Masterpiece Theater    |                     |
| 12:30-1  |                        |                     |
| 1-1:30   | Washington Week Review | NPR Recital Hall    |
| 1:30-2   | Backstage              |                     |
| 2-2:30   | I Hear America*        |                     |
| 2:30-3   |                        | Plots & Prologues*  |
| 3-5      | Folk Festival          | Chicago Symphony    |
| 5-6      | All Things Considered  |                     |
| 6-7      | Prairie Home Companion | Options             |
| 7-8      |                        | Remember When       |
| 8-9:30   | Jazz Alive             | Works of Fitzgerald |
| 9:30-10  |                        | Mosaics             |
| 10-11    | Stardust Ballroom      | Moon Over Morocco   |
| 11-12:30 |                        | Majors and Minors*  |

\* Produced by the University station of WEPR

\*\* Funded by contributions to the University Fund for Radio



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CLEMSON UNIVERSITY LIBRARY NOV 16 1980  
SOUTH CAROLINA ROOM

## HONORS COUNCIL ANNOUNCES PLANS FOR COLLOQUIUM

The University's Honors Council has announced plans for the first President's Honor Colloquium, which will bring four noted humanists to campus Jan. 13-15.

The scholars, currently in residence at the National Humanities Center in Research Triangle, N.C., will address the theme "Distant Tremors: The Humanist as Seismograph," said Corinne Sawyer, Honors Council director.

"The assumption behind this theme," Sawyer explained, "is that humanists -- those men and women who work in the fields of literature, languages, philosophy, history, art, theology and music -- are a kind of 'early warning system' of fundamental changes in the evolution of a culture."

To date, Duquesne University historian John Opie and Harvard University anthropologist Akos Ostor have been confirmed as participants.

Opie, who serves as a consultant to Westinghouse, is recognized as an expert on the compatibility of energy demands and democracy.

Ostor, whose principal field is cultural anthropology, is noted for research in the relationship of developing countries to modern, industrialized nations.

The two remaining speakers will be announced once confirmations are received.

According to Sawyer, the visiting scholars will present papers at 3:30 and 8 p.m. Jan. 13 and 14 in Lee Hall Auditorium, will meet informally with students and will deliver class lectures.

"We're going to set up 'scholars tables' at lunch times," Sawyer said. "One scholar and a group of students will lunch together at each table, giving the students the opportunity to question the scholar freely and without direction."

"We think the colloquium will add significantly to the intellectual life of the



**WOULD YOU TRUST  
THESE CHARACTERS WITH  
YOUR MONEY? -- Betty  
James (left) and  
Connie Dalton, cash-  
iers in the Bursar's  
Office, inspect a fu-  
ture jack-o'-lantern  
at the University  
Union's Halloween  
Pumpkin Carving Con-  
test Oct. 31. Em-  
ployees in the Bur-  
sar's Office have  
come to work in cos-  
tume for the last few  
Halleweens James ex-  
plained.**

campus, especially for honors students. Our hope is that this will become an annual event."

#### CABINET ADOPTS NEW POLICY ON PETS IN UNIVERSITY HOUSING

Keeping dogs and cats in University family housing will be prohibited as of July 1, 1981.

At its Oct. 23 meeting, the President's Cabinet adopted a no-pets policy recommended by housing director Nick Lomax.

Lomax explained, "The Housing Office and Police Department regularly receive pet annoyance complaints from residents, maintenance personnel, groundskeepers, mail carriers and school-bus drivers.

"Existing housing policy allowing for pets requires that owners control their pets and not let them be a threat or nuisance, but the University really has no effective means of enforcing this since we don't have a pet control service of our own and haven't been able to work out an agreement with the city or county for assistance."

He said there are no funds available for the University to operate a pet control service of its own.

In a memo supporting Lomax's recommendation, Director of Public Safety Jack Ferguson agreed a change in the housing pet policy is needed.

Ferguson said most animal complaints concern dogs and come from residents of University housing.

"Presently, we have no ordinances or state statutes to utilize, so realistically, our hands are tied in trying to solve the problems the dogs are creating," he stated.

"If we continue to permit ownership of pets in apartments," Lomax said, "we will, in all fairness, have to extend this privilege to single students who will occupy the East Campus Apartments next fall thereby potentially adding significantly to the number of pets on campus."

Housing publications and agreements for next year will be amended, Lomax said, to include the statement: "Pets --

ownership of pets (dogs and cats) is not permitted in University housing."

Since almost all family housing will become student housing in July, Lomax does not expect many situations to arise where current residents with pets will remain in University housing and want to keep their pets.

However, no dogs or cats will be allowed in any University housing after July 1, 1981, he said.

#### More Bike Racks Approved

Also at its Oct. 23 meeting, the cabinet voted to place more bike racks in the Daniel Hall area and to put bike racks under shelters where practical around campus.

The additional racks for Daniel Hall were recommended by the University Traffic and Parking Committee. The Student Senate asked for racks to be sheltered.

The Office of Business and Finance was instructed by the cabinet to work with the Campus Planning Office in implementing these decisions.

#### DENTAL BENEFITS SURVEY FORMS MUST BE IN BY NOVEMBER 21

University employees are part of a survey being conducted to determine how many state and school district employees are interested in having a dental insurance benefits plan, according to Ron Herrin, director of payrolls and employee benefits programs.

Herrin said a dental benefits survey form and a memo from the State Personnel Division outlining a proposed dental insurance plan have been sent to each employee.

If you haven't received yours yet, you should contact Herrin's office (G-13 Sikes Hall, ext. 2000) immediately.

The survey forms must be returned to Herrin's office no later than Nov. 21.

"Employees should note," Herrin said, "that the first of the three questions on the survey form refers to a dental benefits plan in which the total cost of dental coverage is paid by the employee."



**FACULTY MEMBERS EXHIBIT WORK**  
 -- Photographer Sam Wang (left) and potter Mike Vatalaro, faculty members in the Department of History and Visual Studies, have work featured in a photography-and-clay exhibition through Nov. 21 at the Pickens County Art Museum gallery in Pickens. Gallery hours are 1-5 p.m., Tuesdays and Fridays; 9 a.m. - noon, Wednesdays and Thursdays.



"The other two questions ask about plans in which the state would pay the cost of the insurance."

He said that point is important because the details agreed to by Blue Cross/Blue Shield and the state would be different under a plan where enrollment is voluntary and employees pay from details under a plan where enrollment is automatic and the state pays.

"If the state pays and enrollment is automatic, then Blue Cross/Blue Shield would not be concerned about the level of participation by employees. Therefore, benefits would be higher and cost lower than if enrollment is voluntary," he said.

Anyone with questions about dental coverage or the survey form should contact Herrin.

#### **SURPLUS PROPERTY AVAILABLE IN PUBLIC, SEALED-BID SALE**

A public, sealed-bid sale of surplus University property has been scheduled for Nov. 26 by the Property Control Division.

According to Jim Boleman, director of purchasing, lists of the items for sale have been posted on campus bulletin boards and are available from the purchasing and supply service office in the Service and Support Facility on Perimeter Road (ext. 2390).

He said available items include chairs, truck covers, a payloader and other used

furniture and equipment.

Boleman said bids will be opened at 11 a.m. on the day of the sale.

The sale will be held in the property control warehouse of the Service and Support Facility.

#### **SCHOLARSHIPS ESTABLISHED FOR AGRICULTURE STUDENTS**

Two \$5,000 scholarship funds for University agriculture students have been established by the S.C. Rural Rehabilitation Corp.

The scholarships have been named for E. P. Rogers of Mullins, a director of the corporation, and Horace M. Kinsey of Colleton County, who served as a corporation director prior to his death this year.

Under provisions of the funds, the College of Agricultural Sciences will award the scholarship money to undergraduate students from South Carolina majoring in agricultural sciences.

The corporation makes participating loans with several federal lending agencies that serve agriculture and the rural community.

The corporation also supports two other scholarship funds here.

#### **EMPLOYEES CREDIT UNION MOVES TO COLLEGE PLACE**

The Clemson Branch of the S.C. State Employees Credit Union has moved its office



from University Square Mall to College Place, 405 College Ave., next to the Astro III theater.

In announcing the move, Wallace Blackie, Clemson Branch manager, said the first 50 credit union members to visit the new office, beginning Monday, Nov. 17, will receive free coffee mugs.

He said a free mug also will be given to each of the first 50 persons opening new accounts.

Transferring funds from one account to another will not qualify as opening a new account, he said.

#### CLEMSON WOMEN'S NETWORK GETS GOOD SURVEY RESPONSE

More than 100 of the University's women employees have completed questionnaires distributed by the Clemson Women's Network to determine what direction the new organization for career-minded women employees here should take.

According to Counseling Center psychologist Judith Haislett, a spokeswoman for the network, tabulation and analysis of the responses will be finished by January.

She said the results will be reported at the network's next meeting in early February.

"As we begin programming for our first three meetings next year, we will need the help many interested women at Clemson have volunteered," Haislett said. "They should expect a call."

Anyone with ideas or questions concerning the network should call Haislett (ext. 2451), Corinne Sawyer (ext. 3022) or Verna Gardner (ext. 2295).

#### USC WEEKEND TO INCLUDE VISIT BY MISS UNIVERSE

Shawn Weatherly, reigning Miss Universe, will be on campus Nov. 21-22, the weekend of the USC football game.

Weatherly, a former student here, is from Sumter.

She will arrive on campus Friday afternoon, Nov. 21, and will participate in a

number of activities, including a press conference, special interviews and a midnight pep rally.

Weatherly will lunch with University President Bill Atchley and the Board of Trustees Saturday and will be recognized during a special presentation at halftime of the football game.

#### ENROLLMENT FIGURES RELEASED FOR FALL 1980 SEMESTER

Stanley Smith, registrar, and Arnold Schwartz, graduate studies dean, have released enrollment figures for fall 1980.

Total enrollment figures begin on page 9 of this newsletter.

Figures from the Graduate School begin on page 9.

#### AGRONOMY AND SOILS

U. S. Jones (Prof) and E. L. Suarez (Grad Stu) have published "Impact of Atmospheric Sulfur Deposition on Agroecosystems," Chapter 39, in Atmospheric Sulfur Deposition, edited by D. S. Shriner, C. R. Richmond and S. E. Lindberg, (Ann Arbor, Mich.: Ann Arbor Science Publishers Inc., 1980).

#### BIOLOGY

A paper, "Quantitative and Qualitative Characteristics of Accelerated Processed Pork," co-authored by Ric A. Garcia (Asst Prof), was presented recently at the International Meat Research Congress and published in the Congress Documentation Proceedings.

Doris R. Helms (Assoc Prof), William M. Surver (Asst Prof) and C. Kenyon Wagner (Asst Prof) presented a workshop, "Hands-On Laboratory Experiments for Secondary School Teachers," at the annual meeting of the S.C. Science Council in Charleston Oct. 3-4.

#### CHEMICAL ENGINEERING

W. F. Bechwith (Prof) presented a paper, "Characterization of Black Liquor for Improving the Energy Efficiency of Recovery Boilers," at the Third Annual World Energy Conference in Atlanta, Ga., March 15.

J. M. Haile (Assoc Prof) and H. W. Graben (Prof, Phys) have had a paper, "On the Isoenthalpic - Isobaric Ensemble in Classical Statistical Mechanics," published in Molecular Physics, 40 (1980), 1433.

#### CONTINUING EDUCATION

Judith J. Chodil (Assoc Prof and Dir) has been appointed to the Health Education Authority, S.C. Commission on Higher Education. Prof. Chodil has served as an alternate during the previous two years.

#### ELEMENTARY AND SECONDARY EDUCATION

William W. Pennscott (Prof) presented a paper, "Supervision: A Developmental Approach," at the North Central Association of Counselor Educators and Supervisors held at West Lafayette, Ind.

#### ENGINEERING TECHNOLOGY

Carl R. Lindenmeyer (Assoc Prof) and Fred R. Sias Jr. (Assoc Prof, ECE) are authors of a film, "Computers as a Management Tool," that won first place in the Office Management category of the 1980 National Film Competition of the Industrial Management Society. Another film authored by Prof. Lindenmeyer, "Productivity and the Problem-Solving Process," won first place in the Work Simplification category. These films will receive national distribution through the film library of the Industrial Management Society. The two first-place awards were made in Chicago Nov. 3-7 at the 44th Industrial Engineering and Management Clinic of the Industrial Management Society.

Prof. Lindenmeyer has been selected as a referee by the editorial board of Computers and Industrial Engineering, an international journal. He reviews articles submitted in the areas of human performance and work measurement and in other classical industrial engineering areas involving computer applications.

Thomas H. Oswald (Assoc Prof) has been selected for membership in the 1980-81 class of Leadership South Carolina, a program sponsored by the S.C. Chamber of Commerce, the University of South Carolina and the Office of the Governor and designed to bring together a group of

approximately 50 leaders from the public and private sectors of the state to examine and expand personal perspectives on critical issues facing South Carolina. The theme for the 1980-81 program, "Quality of Life in South Carolina," will be developed through a series of six conferences during the year. Prof. Oswald chaired the program committee for the LSC conference on energy held here in May.

#### ENVIRONMENTAL SYSTEMS ENGINEERING

R. A. Fjeld (Assoc Prof) presented a paper, "Measurement of the Charge on Submicrometer Aerosols Exposed to Bipolar Ions," at the IEEE annual meeting in Cincinnati, Sept. 28 - Oct. 3. R. O. Gannett, A. R. McFarland and G. J. Laughlin (Texas A&M Univ) were co-authors.

Dr. A. W. Elzerman (Asst Prof) has received a two-year grant, "Effects of Acid Deposition (Rain) on a Piedmont Aquatic Ecosystem: Acid Inputs, Neutralization, and pH Changes," from the Office of Water Research and Technology, Dept. of the Interior. The study will focus on the Lake Issaqueena watershed.

T. M. Keinath (Prof & Hd) and V. D. Laquidara (Former Grad Stu) presented a paper, "Mechanism of Clarification Failure," at the annual conference of the Water Pollution Control Federation Sept. 29. Prof. Keinath also chaired a process design symposium.

Thomas J. Overcamp (Assoc Prof) presented a paper, "A Comparison between Surface-Corrected and Surface-Depletion Models for Estimating Deposition of Pollutants," at the Symposium on Intermediate Range Transport Processes and Technology Assessment, Gatlinburg, Tenn., Oct. 2.

Profs. Elzerman and Keinath have received a grant, "Environmental Engineering Chemistry: Sources, Fate, and Control of Toxic Trace Pollutants," from the National Science Foundation as part of the Experimental Program to Stimulate Competitive Research (EPSCoR). The grant is intended to run for five years and to stimulate environmental chemistry related research in ESE. Profs. Overcamp and Fjeld, J. E. Schindler (Prof, Zool) and personnel from the Savannah River Ecology Lab in Aiken are also participating.



Prof. Overcamp was elected vice president of the Carolinas Air Pollution Control Association at its fall meeting in Myrtle Beach, Oct. 29-31.

#### EXTENSION HOME ECONOMICS

Rose J. Davis (Assoc Prof) is chairman of the National Extension Task Force on Food and Nutrition, which met in Chicago Oct. 14-16 and will report current program priorities to the ECOP Home Economics Subcommittee.

#### FORESTRY

B. A. Dunn (Assoc Prof) authored a paper, "Characteristics, Enactment, and Structural Effectiveness of South Carolina's Forest Policy," published as Department of Forestry Technical Paper No. 12.

The Southeastern Forest Experiment Station, U.S. Forestry Service, recently funded four Department research projects. D. L. Ham (Assoc Prof) was granted \$5000 to study "Growth, Decline, and Mortality and Red Oaks in the Southern Urban Environment." J. H. Stevens (Res For) was granted \$1500 to conduct "An Assessment of the Renewable Resources Recreation Situation in the United States." R. L. Hedden (Assoc Prof) was granted \$4400 to investigate "Nantucket Pine Tip Moth Biomass Impact." D. H. Van Lear (Prof) was granted \$5111 to study the "State of Knowledge on the Role of Fire in Mixed Pinehardwood Stands in the Southern Appalachian Mountains and Upper Piedmont."

Profs. Hedden and Van Lear attended the Society of American Foresters National Meeting in Spokane, Wash., Oct. 6-8. Prof. Hedden is serving as secretary of the Forest Entomology Working Group and Prof. Van Lear is serving as chairman of the task force on "Appropriate Silviculture for Major Forest Types," and reported to the Silviculture Working Group.

Prof. Van Lear and H. E. Kodama (Former Grad Stu) co-authored a paper, "Prescribed Burning and Nutrient Cycling Relationships in Young Loblolly Pine Plantations," published in the Southern Journal of Applied Forestry.

The Francis Marion and Sumter National Forests, USFS, granted \$8500 to G. W.

Wood (Prof) to study "The Nutritional Value Changes of Deer Forage Due to Forest Fertilization."

Prof. Wood recently authored the following papers: "Food Habits of Feral Hogs in South Carolina" and "Feral Hog Movements and Habitat Use in Coastal South Carolina," published in the Journal of Wildlife Management; "Status of Wild Pigs in the United States," published in the Wildlife Society Bulletin.

#### HISTORY

Joseph L. Arbena (Prof) gave an audiovisual presentation, "Regionalism and Musical Variations: The Colombian Case," during the ninth national meeting of the Latin American Studies Association in Bloomington, Ind., Oct. 17-19.

E. M. Lander, Jr. (Alumni Prof) reviewed R. B. Latner's The Presidency of Andrew Jackson: White House Politics, 1829-1837 in the Florida Historical Quarterly, October 1980, pp. 221-23.

Richard M. Golden (Assoc Prof) delivered an address, "Witch Hunting and Woman-Burning: Sexual Politics of the European Witch Craze," at the University of South Carolina in Columbia Oct. 16.

Leonard Greenspoon (Asst Prof) presented a paper, "Legal Aspects of Warfare in Ancient Israel," at the annual meeting of the American Society for Legal History in Philadelphia Oct. 24.

Charles H. Lippy (Assoc Prof) chaired and participated in a panel discussing Peter William's Popular Religion in America during the annual meeting of the Popular Culture Association of the South Oct. 17 in Winston-Salem, N.C. Laura Becker (Asst Prof) commented during the discussion.

William Maker (Asst Prof, Phil) presented a paper, "Hegel's Rejection of Absolutism," at the 6th biennial meeting of the Hegel Society of America, held at Trent University, Peterborough, Ontario, Canada, Oct. 6. At the meeting the Hegel Society selected Clemson University as the location for the next gathering of Hegelians.

## INTERDISCIPLINARY STUDIES

Joon B. Park (Assoc Prof) has received a two-year grant of \$83,341 from NASA to study "Development of Finger Joint Grommet Using Ion Thruster Technology." The grant began Oct. 1, and co-investigators are Gerry H. Kenner (Assoc Prof) and Andreas F. von Recum (Prof).

Prof. Park published a paper, "The Mechanical Property Stability of Barium Titanate (ceramic) Implants In Vitro," in Biomaterials, Medical Devices and Artificial Organs, 8 (1980), 265-272. Co-authors are Michael F. Grether (Former Grad Stu), William W. Coffeen (Prof, Cer Engr) and Gerry H. Kenner (Assoc Prof).

Dr. Park has been appointed to the Editorial Board of the Journal of Biomedical Materials Research, the official journal of the Society for Biomaterials in which he serves as Membership Committee chairman.

## LANGUAGES

Margit M. Sinka (Assoc Prof, Ger) conducted a workshop, "Techniques and Activities for Foreign Language Conversation and Composition Courses," Oct. 4 in Charleston at the Southern Conference on Language Teaching.

## MUSIC

Lillian U. Harder (Asst Prof) was elected president of the S.C. Music Teachers Association at the annual state convention Oct. 30 - Nov. 1 at the College of Charleston. Prof. Harder has just completed a two-year term as first vice-president.

## PHYSICS AND ASTRONOMY

Beverly B. Bookmyer (Prof) and Danny R. Faulkner of Indiana University have published a paper, "Photoelectric Light Curves of RZ Columbae," Internat'l Astron. Union Infor. Bull. on Bar. Stars, No. 1837 (1980).

Prof. Bookmyer and James R. Kern (Grad Stu) have been granted use of the observing facilities at Cerro Tololo InterAmerican Observatory, Chile, Dec. 29 - Jan. 12. They plan to obtain photoelectric

measurements of several eclipsing binary systems about which little is known at the present time. The Association of Universities for Research in Astronomy will provide \$2600 of the required funding.

R. Cecil Gentry (Vstg Prof of Atmospheric Phys) presented two papers, "Hurricane Structure -- An Observational Summary" and "Study of SASS and GOES Derived Winds to be Used in a Case Study of Hurricane Ella," and was chairman of a session at the SEASAT Storms Workshop sponsored by the National Oceanic and Atmospheric Administration and the National Aeronautical and Space Administration at the University of Miami, Oct. 29-31.

A. L. Laskar (Prof) and B. E. Taylor (Former Grad Stu) have the following paper, "Electrical Conductivity of Ammonium Bromide," published in Physica Status Solidii 101, 423,30, (1980).

D. P. Miller (Prof) has been awarded \$7070 by the Science and Education Administration, U. S. Department of Agriculture, to study the molecular chain conformations of Cellulose I (cotton) and Cellulose II (rayon).

Prof. Miller and R. C. Brannon (Former Grad Stu) have published an article, "Accurate Fiber X-ray Diffraction Data From Films: Data Array Calculations," in the American Chemical Society Symposium Series Volume, Diffraction Methods for Structural Determination of Fibrous Polymers. The two also presented a paper, "The Structure of KBr-Amylose, A Fibrous Polymer, Determined from Accurate X-ray Diffraction Data," at the 1980 Summer American Crystallographic Association Meeting in Calgary, Alberta, Canada, Aug. 17-23.

Raymond C. Turner (Assoc Prof) presented a paper, "Free Radicals in PMMA Bone Cement," to the Southeastern Magnetic Resonance Conference Oct. 3 in Birmingham, Ala. The paper was co-authored by J. B. Park (Assoc Prof, Bioeng), M. A. Ackley (Grad Stu) and P. E. Atkins (Former Undergrad Stu).

## POLITICAL SCIENCE

Horace Fleming (Assoc Prof) and Walton



Owens (Prof) have had a paper, "Justice William O. Douglas: Elites' Perception of his Performance on the U.S. Supreme Court," published as a chapter of Essays on Current Politics, and Government, by Edward Lukes (Peal Publishers).

Martin Slann (Assoc Prof) presented a paper, "Israeli Perception and Response Patterns to World Political Trends," at the annual meeting of the Third World Conference Oct. 22-25.

## Enrollment by Men and Women - Full Time and Part Time First Semester 1980-1981

| Classification             | MEN       |           |       | WOMEN     |           |       | TOTAL     |           |       |
|----------------------------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|
|                            | Full Time | Part Time | Total | Full Time | Part Time | Total | Full Time | Part Time | Total |
| 1st Semester Freshman      | 1369      | 40        | 1409  | 1088      | 44        | 1132  | 2457      | 84        | 2541  |
| 2nd Semester Freshman      | 305       | 2         | 307   | 176       | 6         | 182   | 481       | 8         | 489   |
| Sub-Total                  | 1674      | 42        | 1716  | 1264      | 50        | 1314  | 2938      | 92        | 3030  |
| 1st Semester Sophomore     | 814       | 18        | 832   | 603       | 12        | 615   | 1417      | 30        | 1447  |
| 2nd Semester Sophomore     | 383       | 30        | 413   | 180       | 11        | 191   | 563       | 41        | 604   |
| Sub-Total                  | 1197      | 48        | 1245  | 783       | 23        | 806   | 1980      | 71        | 2051  |
| 1st Semester Junior        | 854       | 53        | 907   | 591       | 17        | 608   | 1445      | 70        | 1515  |
| 2nd Semester Junior        | 489       | 24        | 513   | 222       | 12        | 234   | 711       | 36        | 747   |
| Sub-Total                  | 1343      | 77        | 1420  | 813       | 29        | 842   | 2156      | 106       | 2262  |
| 1st Semester Senior        | 623       | 21        | 644   | 480       | 12        | 492   | 1103      | 33        | 1136  |
| 2nd Semester Senior        | 505       | 83        | 588   | 219       | 22        | 241   | 724       | 105       | 829   |
| Sub-Total                  | 1128      | 104       | 1232  | 699       | 34        | 733   | 1827      | 138       | 1965  |
| Unclassified Undergraduate | 1         | 1         | 2     | 0         | 0         | 0     | 1         | 1         | 2     |
| Post Graduate              | 36        | 18        | 54    | 11        | 11        | 22    | 47        | 29        | 76    |
| Post Baccalaureate         | 14        | 4         | 18    | 5         | 5         | 10    | 19        | 9         | 28    |
| Total Undergraduate        | 5393      | 294       | 5687  | 3575      | 152       | 3727  | 8968      | 446       | 9414  |
| Unclassified Graduate      | 7         | 48        | 55    | 4         | 78        | 82    | 11        | 126       | 137   |
| Masters                    | 468       | 186       | 654   | 200       | 238       | 438   | 668       | 424       | 1092  |
| Education Specialist       | 0         | 20        | 20    | 0         | 3         | 3     | 0         | 23        | 23    |
| Pre-Doctoral               | 2         | 2         | 4     | 3         | 0         | 3     | 5         | 2         | 7     |
| Doctors                    | 142       | 37        | 179   | 33        | 6         | 39    | 175       | 43        | 218   |
| Total Graduate             | 619       | 293       | 912   | 240       | 325       | 565   | 859       | 618       | 1477  |
| On-Campus Total            | 6012      | 587       | 6599  | 3815      | 477       | 4292  | 9827      | 1064      | 10891 |
| Institutes                 | 0         | 116       | 116   | 0         | 396       | 396   | 0         | 512       | 512   |
| MBA Clemson-Furman         | 6         | 132       | 138   | 4         | 34        | 38    | 10        | 166       | 176   |
| Off-Campus Total           | 6         | 248       | 254   | 4         | 430       | 434   | 10        | 678       | 688   |
| University Total           | 6018      | 835       | 6853  | 3819      | 907       | 4726  | 9837      | 1742      | 11579 |

## Total Enrollment by Courses and Academic Classification

Clemson University  
First Semester 1980-1981

| Major Course  | Freshman | Sophomore | Junior | Senior | Unclash<br>Ungrad | Post<br>Grad | Post<br>Bacc | Unclash<br>Grad | Masters | Doctor | Total |
|---------------|----------|-----------|--------|--------|-------------------|--------------|--------------|-----------------|---------|--------|-------|
| AG-ND         | 0        | 0         | 0      | 0      | 0                 | 0            | 0            | 6               | 1       | 0      | 7     |
| AGRIC         | 16       | 1         | 0      | 0      | 0                 | 0            | 0            | 0               | 0       | 0      | 17    |
| AG BUS        | 2        | 2         | 1      | 0      | 0                 | 0            | 0            | 0               | 0       | 0      | 5     |
| AG EC         | 7        | 9         | 10     | 14     | 0                 | 0            | 0            | 0               | 23      | 0      | 63    |
| AG E          | 18       | 21        | 17     | 12     | 0                 | 0            | 1            | 0               | 5       | 3      | 77    |
| AG MECH       | 19       | 20        | 10     | 18     | 0                 | 0            | 1            | 0               | 5       | 0      | 73    |
| AGRON         | 4        | 10        | 19     | 11     | 0                 | 0            | 0            | 0               | 12      | 6      | 62    |
| A&F IND       | 0        | 0         | 0      | 0      | 0                 | 0            | 0            | 0               | 22      | 0      | 22    |
| AN IND        | 2        | 0         | 0      | 0      | 0                 | 0            | 0            | 0               | 0       | 0      | 2     |
| AN PH         | 0        | 0         | 0      | 0      | 0                 | 0            | 0            | 0               | 0       | 14     | 14    |
| AN SC         | 41       | 27        | 28     | 29     | 0                 | 0            | 0            | 0               | 9       | 0      | 134   |
| APPL EC       | 0        | 0         | 0      | 0      | 0                 | 0            | 0            | 0               | 1       | 6      | 7     |
| C R D         | 6        | 1         | 3      | 0      | 0                 | 0            | 0            | 0               | 0       | 0      | 10    |
| DY SC         | 10       | 14        | 9      | 5      | 0                 | 0            | 0            | 0               | 7       | 0      | 45    |
| EC BIOL       | 17       | 1         | 4      | 4      | 0                 | 0            | 0            | 0               | 0       | 0      | 26    |
| EC ZOO        | 6        | 6         | 8      | 15     | 0                 | 0            | 0            | 0               | 0       | 0      | 35    |
| ENT           | 0        | 3         | 0      | 4      | 0                 | 0            | 0            | 0               | 15      | 13     | 35    |
| FD SC         | 9        | 11        | 5      | 7      | 0                 | 0            | 0            | 0               | 0       | 0      | 32    |
| HORT          | 30       | 25        | 47     | 56     | 0                 | 1            | 3            | 0               | 14      | 0      | 176   |
| NUTR          | 0        | 0         | 0      | 0      | 0                 | 0            | 3            | 0               | 30      | 11     | 44    |
| PL PATH       | 0        | 0         | 0      | 1      | 0                 | 0            | 0            | 0               | 10      | 3      | 14    |
| PL PH         | 0        | 0         | 0      | 0      | 0                 | 0            | 0            | 0               | 0       | 16     | 16    |
| PL SC         | 1        | 0         | 0      | 0      | 0                 | 0            | 0            | 0               | 0       | 0      | 1     |
| P S           | 3        | 2         | 10     | 7      | 0                 | 0            | 0            | 0               | 1       | 0      | 23    |
| W B           | 0        | 0         | 0      | 0      | 0                 | 0            | 0            | 0               | 16      | 0      | 16    |
| College Total | 191      | 153       | 171    | 183    | 0                 | 1            | 8            | 6               | 171     | 72     | 956   |
| ARCH-ND       | 0        | 0         | 0      | 0      | 0                 | 0            | 0            | 1               | 0       | 0      | 1     |
| ARCH          | 0        | 0         | 0      | 0      | 0                 | 2            | 7            | 0               | 75      | 0      | 84    |
| BLDSC         | 18       | 13        | 21     | 17     | 0                 | 2            | 0            | 0               | 0       | 0      | 71    |
| C R P         | 0        | 0         | 0      | 0      | 0                 | 0            | 0            | 0               | 27      | 0      | 27    |
| DSN BA        | 32       | 26        | 18     | 9      | 0                 | 4            | 0            | 0               | 0       | 0      | 89    |
| DSN BS        | 59       | 48        | 61     | 41     | 0                 | 2            | 0            | 0               | 0       | 0      | 211   |
| VIS-ST        | 0        | 0         | 0      | 0      | 0                 | 0            | 2            | 0               | 13      | 0      | 15    |
| College Total | 109      | 87        | 100    | 67     | 0                 | 10           | 9            | 1               | 115     | 0      | 498   |

| Major Course  | Freshman | Sophomore | Junior | Senior | Unclass Ungrad | Post Grad | Post Bacc | Unclass Grad | Masters | Doctor | Total |
|---------------|----------|-----------|--------|--------|----------------|-----------|-----------|--------------|---------|--------|-------|
| EDUC-ND       | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 95           | 2       | 0      | 97    |
| EDUC          | 2        | 1         | 1      | 1      | 0              | 0         | 0         | 0            | 0       | 0      | 5     |
| ADM SPV       | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 52      | 0      | 52    |
| AG ED         | 13       | 3         | 3      | 18     | 0              | 0         | 0         | 0            | 12      | 0      | 49    |
| E CH ED       | 51       | 34        | 42     | 36     | 0              | 0         | 0         | 0            | 0       | 0      | 163   |
| EL ED         | 78       | 59        | 74     | 93     | 0              | 2         | 0         | 0            | 77      | 0      | 383   |
| IN ED         | 15       | 1         | 10     | 9      | 0              | 0         | 3         | 0            | 19      | 0      | 57    |
| IN ED-A       | 1        | 12        | 7      | 12     | 0              | 0         | 0         | 0            | 0       | 0      | 32    |
| IN ED-I       | 18       | 15        | 13     | 8      | 0              | 0         | 0         | 0            | 0       | 0      | 54    |
| IN ED-V       | 1        | 4         | 3      | 2      | 0              | 0         | 0         | 0            | 0       | 0      | 10    |
| PER S         | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 103     | 0      | 103   |
| READING       | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 39      | 0      | 39    |
| SC TCH        | 0        | 0         | 1      | 2      | 0              | 0         | 0         | 0            | 0       | 0      | 3     |
| SC T-BS       | 5        | 4         | 6      | 6      | 0              | 0         | 0         | 0            | 0       | 0      | 21    |
| SC T-CH       | 0        | 0         | 0      | 1      | 0              | 0         | 0         | 0            | 0       | 0      | 1     |
| SC T-ES       | 1        | 1         | 3      | 4      | 0              | 0         | 0         | 0            | 0       | 0      | 9     |
| SC T-MA       | 2        | 3         | 6      | 4      | 0              | 0         | 0         | 0            | 0       | 0      | 15    |
| SC T-PH       | 0        | 1         | 3      | 4      | 0              | 0         | 0         | 0            | 0       | 0      | 8     |
| S ED          | 4        | 2         | 8      | 5      | 0              | 0         | 0         | 0            | 0       | 0      | 19    |
| S ED-EC       | 0        | 0         | 1      | 1      | 0              | 0         | 0         | 0            | 0       | 0      | 2     |
| S ED-EN       | 12       | 5         | 12     | 13     | 0              | 0         | 0         | 0            | 7       | 0      | 49    |
| S ED-HI       | 12       | 5         | 4      | 8      | 0              | 0         | 0         | 0            | 6       | 0      | 35    |
| S ED-MA       | 8        | 5         | 4      | 7      | 0              | 1         | 0         | 0            | 5       | 0      | 30    |
| S ED-FR       | 1        | 0         | 1      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 2     |
| S ED-GE       | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 0     |
| S ED-SP       | 0        | 0         | 1      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 1     |
| S ED-NS       | 3        | 2         | 2      | 3      | 0              | 0         | 0         | 0            | 7       | 0      | 17    |
| S ED-PO       | 0        | 0         | 1      | 0      | 0              | 0         | 0         | 0            | 1       | 0      | 2     |
| S ED-PS       | 1        | 3         | 4      | 3      | 0              | 0         | 0         | 0            | 0       | 0      | 11    |
| S ED-SO       | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 0     |
| College Total | 228      | 160       | 210    | 240    | 0              | 3         | 3         | 95           | 330     | 0      | 1269  |



| Major Course  | Freshman | Sophomore | Junior | Senior | Unclass Ungrad | Post Grad | Post Bacc | Unclass Grad | Masters | Doctor | Total |
|---------------|----------|-----------|--------|--------|----------------|-----------|-----------|--------------|---------|--------|-------|
| ENGR-ND       | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 9            | 0       | 0      | 9     |
| ENGR          | 37       | 6         | 2      | 1      | 0              | 0         | 0         | 0            | 0       | 0      | 46    |
| BIOENGR       | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 11      | 4      | 15    |
| CR E          | 19       | 20        | 26     | 30     | 0              | 1         | 0         | 0            | 4       | 0      | 100   |
| CH E          | 123      | 65        | 74     | 76     | 0              | 1         | 0         | 0            | 19      | 2      | 360   |
| C E           | 110      | 109       | 116    | 94     | 0              | 3         | 0         | 0            | 30      | 8      | 470   |
| CP ENGR       | 38       | 1         | 4      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 43    |
| E E           | 181      | 155       | 124    | 102    | 0              | 4         | 0         | 0            | 43      | 10     | 619   |
| E A           | 1        | 5         | 4      | 3      | 0              | 1         | 0         | 0            | 0       | 0      | 14    |
| E M           | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 1       | 2      | 3     |
| E T           | 113      | 37        | 64     | 61     | 0              | 0         | 0         | 0            | 0       | 0      | 275   |
| E S E         | 0        | 0         | 0      | 0      | 0              | 0         | 1         | 0            | 37      | 11     | 49    |
| MAT E         | 1        | 0         | 0      | 1      | 0              | 0         | 0         | 0            | 4       | 0      | 6     |
| M E           | 184      | 156       | 148    | 121    | 0              | 12        | 0         | 0            | 26      | 4      | 651   |
| SYS ENG       | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 4       | 7      | 11    |
| College Total | 807      | 554       | 562    | 489    | 0              | 22        | 1         | 9            | 179     | 48     | 2671  |
| IMTS-ND       | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 9            | 0       | 0      | 9     |
| ACCT          | 104      | 103       | 91     | 65     | 0              | 1         | 0         | 0            | 0       | 0      | 364   |
| ADM MGT       | 347      | 237       | 271    | 196    | 0              | 0         | 0         | 0            | 1       | 0      | 1052  |
| ECON (BA)     | 13       | 17        | 16     | 14     | 0              | 0         | 0         | 0            | 0       | 0      | 60    |
| ECON          | 20       | 13        | 26     | 30     | 0              | 0         | 0         | 0            | 9       | 0      | 98    |
| E MGT         | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 0       | 16     | 16    |
| FIN MGT       | 183      | 150       | 136    | 74     | 0              | 1         | 0         | 0            | 0       | 0      | 544   |
| I M           | 65       | 50        | 61     | 47     | 0              | 1         | 0         | 0            | 0       | 0      | 224   |
| MGT           | 0        | 0         | 0      | 0      | 0              | 0         | 1         | 0            | 27      | 0      | 28    |
| MGT SC        | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 0       | 6      | 6     |
| T-P-S         | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 0       | 5      | 5     |
| T C           | 1        | 5         | 5      | 8      | 0              | 0         | 0         | 1            | 6       | 0      | 26    |
| T S           | 7        | 0         | 4      | 1      | 0              | 0         | 0         | 0            | 6       | 0      | 18    |
| TEXT T        | 19       | 9         | 15     | 21     | 0              | 0         | 0         | 0            | 0       | 0      | 64    |
| College Total | 759      | 584       | 625    | 456    | 0              | 3         | 1         | 10           | 49      | 27     | 2514  |

| Major Course  | Freshman | Sophomore | Junior | Senior | Unclass Ungrad | Post Grad | Post Bacc | Unclass Grad | Masters | Doctor | Total |
|---------------|----------|-----------|--------|--------|----------------|-----------|-----------|--------------|---------|--------|-------|
| L A - ND      | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 5            | 0       | 0      | 5     |
| LIB ART       | 35       | 9         | 3      | 1      | 0              | 0         | 0         | 0            | 0       | 0      | 48    |
| ENGL          | 52       | 26        | 48     | 31     | 0              | 1         | 2         | 0            | 31      | 0      | 191   |
| FR            | 8        | 6         | 7      | 6      | 0              | 0         | 0         | 0            | 0       | 0      | 27    |
| GER           | 2        | 3         | 2      | 2      | 0              | 0         | 0         | 0            | 0       | 0      | 9     |
| HIST          | 20       | 21        | 15     | 12     | 0              | 0         | 0         | 0            | 10      | 0      | 78    |
| PO SC         | 62       | 33        | 41     | 39     | 0              | 0         | 0         | 1            | 0       | 0      | 176   |
| PSYCH         | 58       | 33        | 49     | 38     | 0              | 0         | 0         | 0            | 0       | 0      | 178   |
| SOC           | 17       | 14        | 31     | 28     | 0              | 0         | 0         | 0            | 0       | 0      | 90    |
| SPAN          | 2        | 4         | 3      | 4      | 0              | 0         | 0         | 0            | 0       | 0      | 13    |
| College Total | 256      | 149       | 199    | 161    | 0              | 1         | 2         | 6            | 41      | 0      | 815   |
| NURS-ND       | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 0     |
| NURS AA       | 16       | 27        | 7      | 3      | 0              | 1         | 0         | 0            | 0       | 0      | 54    |
| NURS BS       | 83       | 55        | 62     | 70     | 0              | 3         | 0         | 0            | 12      | 0      | 285   |
| College Total | 99       | 82        | 69     | 73     | 0              | 4         | 0         | 0            | 12      | 0      | 339   |
| SCS-ND        | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 5            | 0       | 0      | 5     |
| BIO CH        | 11       | 11        | 13     | 14     | 0              | 0         | 0         | 0            | 10      | 8      | 67    |
| BOT           | 2        | 3         | 3      | 6      | 0              | 0         | 0         | 0            | 9       | 0      | 23    |
| CH BA         | 2        | 2         | 3      | 3      | 0              | 0         | 0         | 0            | 0       | 0      | 10    |
| CH BS         | 11       | 11        | 10     | 7      | 0              | 0         | 0         | 0            | 21      | 21     | 81    |
| COMP SC       | 95       | 12        | 11     | 4      | 1              | 2         | 4         | 0            | 10      | 0      | 139   |
| GEOLOGY BA    | 2        | 1         | 2      | 3      | 0              | 0         | 0         | 0            | 0       | 0      | 8     |
| GEOLOGY BS    | 4        | 5         | 10     | 5      | 0              | 0         | 0         | 0            | 0       | 0      | 24    |
| MATH BA       | 8        | 2         | 8      | 3      | 0              | 0         | 0         | 1            | 0       | 0      | 22    |
| MATH BS       | 62       | 54        | 55     | 39     | 0              | 2         | 0         | 0            | 50      | 19     | 281   |
| MED T         | 30       | 12        | 10     | 1      | 0              | 0         | 0         | 0            | 0       | 0      | 53    |
| MICRO         | 32       | 30        | 38     | 32     | 0              | 0         | 0         | 0            | 29      | 0      | 161   |
| PHYS BA       | 0        | 1         | 1      | 1      | 0              | 0         | 0         | 0            | 0       | 0      | 3     |
| PHYS BS       | 1        | 3         | 5      | 8      | 0              | 0         | 0         | 0            | 19      | 7      | 43    |
| P-DENT        | 1        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 1     |
| P-MED         | 1        | 0         | 0      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 1     |
| PM CORE       | 63       | 2         | 0      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 65    |
| P-PHARM       | 25       | 14        | 4      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 43    |
| P-PHY T       | 32       | 11        | 8      | 0      | 0              | 0         | 0         | 0            | 0       | 0      | 51    |
| ZOOL          | 37       | 28        | 25     | 28     | 0              | 0         | 0         | 0            | 21      | 23     | 162   |
| College Total | 419      | 202       | 206    | 154    | 1              | 4         | 4         | 6            | 169     | 78     | 1243  |

| Major Course     | Freshman | Sophomore | Junior | Senior | Unclass Ungrad | Post Grad | Post Bacc | Unclass Grad | Masters | Doctor | Total |
|------------------|----------|-----------|--------|--------|----------------|-----------|-----------|--------------|---------|--------|-------|
| ERR-ND           | 0        | 0         | 0      | 0      | 0              | 0         | 0         | 4            | 0       | 0      | 4     |
| FOR              | 32       | 27        | 20     | 40     | 0              | 2         | 0         | 0            | 27      | 0      | 148   |
| R P A            | 62       | 49        | 91     | 93     | 0              | 1         | 0         | 0            | 21      | 0      | 317   |
| WD UTIL          | 4        | 4         | 5      | 7      | 0              | 0         | 0         | 0            | 0       | 0      | 20    |
| College Total    | 98       | 80        | 116    | 140    | 0              | 3         | 0         | 4            | 48      | 0      | 489   |
| NON-DEG          | 64       | 0         | 4      | 2      | 1              | 25        | 0         | 0            | 1       | 0      | 97    |
| College Total    | 64       | 0         | 4      | 2      | 1              | 25        | 0         | 0            | 1       | 0      | 97    |
| UNIVERSITY TOTAL | 3030     | 2051      | 2262   | 1965   | 2              | 76        | 28        | 137          | 1115    | 225    | 10891 |

## FINAL ENROLLMENT IN GRADUATE SCHOOL, FIRST SEMESTER 1980-81

| MAJOR<br>-----                   | NON-<br>DEGREE<br>----- | PROF<br>MAST<br>----- | MA/MS<br>----- | EDS<br>--- | PHD<br>--- | TOTAL<br>----- |
|----------------------------------|-------------------------|-----------------------|----------------|------------|------------|----------------|
| COLLEGE OF AGRICULTURAL SCIENCES |                         |                       |                |            |            |                |
| AGRICULTURE (UNDECLARED)         | 7                       | 0                     | 0              | 0          | 0          | 7              |
| AGRICULTURAL ECONOMICS           | 0                       | 5                     | 18             | 0          | 0          | 23             |
| AGRICULTURAL ENGINEERING         | 0                       | 0                     | 5              | 0          | 3          | 8              |
| AGRICULTURAL MECHANIZATION       | 0                       | 5                     | 0              | 0          | 0          | 5              |
| AGRONOMY                         | 0                       | 1                     | 10             | 0          | 6          | 17             |
| ANIMAL & FOOD INDUSTRIES         | 0                       | 0                     | 21             | 0          | 0          | 21             |
| ANIMAL PHYSIOLOGY                | 0                       | 0                     | 0              | 0          | 15         | 15             |
| ANIMAL SCIENCE                   | 0                       | 9                     | 0              | 0          | 0          | 9              |
| APPLIED ECONOMICS                | 0                       | 0                     | 0              | 0          | 9          | 9              |
| DAIRY SCIENCE                    | 0                       | 7                     | 0              | 0          | 0          | 7              |
| ENTOMOLOGY                       | 0                       | 0                     | 15             | 0          | 13         | 28             |
| HORTICULTURE                     | 0                       | 1                     | 14             | 0          | 0          | 15             |
| NUTRITION                        | 0                       | 11                    | 20             | 0          | 11         | 42             |
| PLANT PATHOLOGY                  | 0                       | 0                     | 10             | 0          | 3          | 13             |
| PLANT PHYSIOLOGY                 | 0                       | 0                     | 0              | 0          | 16         | 16             |
| POULTRY SCIENCE                  | 0                       | 1                     | 0              | 0          | 0          | 1              |
| WILDLIFE BIOLOGY                 | 0                       | 0                     | 18             | 0          | 0          | 18             |
| TOTAL AGRICULTURAL SCIENCES      | 7                       | 40                    | 131            | 0          | 76         | 254            |
| COLLEGE OF ARCHITECTURE          |                         |                       |                |            |            |                |
| ARCHITECTURE (UNDECLARED)        | 1                       | 0                     | 0              | 0          | 0          | 1              |
| ARCHITECTURE                     | 0                       | 75                    | 0              | 0          | 0          | 75             |
| CITY & REGION PLANNING           | 0                       | 27                    | 0              | 0          | 0          | 27             |
| VISUAL STUDIES                   | 0                       | 12                    | 0              | 0          | 0          | 12             |
| TOTAL ARCHITECTURE               | 1                       | 114                   | 0              | 0          | 0          | 115            |
| COLLEGE OF EDUCATION             |                         |                       |                |            |            |                |
| EDUCATION (UNDECLARED)           | 373                     | 0                     | 0              | 0          | 0          | 373            |
| ADM & SUPERVISION                | 0                       | 49                    | 0              | 40         | 0          | 89             |
| AGRICULTURAL EDUCATION           | 0                       | 18                    | 0              | 0          | 0          | 18             |
| ELEMENTARY EDUCATION             | 0                       | 161                   | 0              | 0          | 0          | 161            |
| INDUSTRIAL EDUCATION             | 0                       | 21                    | 0              | 0          | 0          | 21             |
| PERSONNEL SERVICES               | 0                       | 143                   | 0              | 0          | 0          | 143            |
| READING                          | 0                       | 55                    | 0              | 0          | 0          | 55             |
| SEC EDUCATION (ENGLISH)          | 0                       | 9                     | 0              | 0          | 0          | 9              |
| SEC EDUCATION (HISTORY)          | 0                       | 7                     | 0              | 0          | 0          | 7              |
| SEC EDUCATION (MATH)             | 0                       | 6                     | 0              | 0          | 0          | 6              |
| SEC EDUCATION (NAT SCI)          | 0                       | 9                     | 0              | 0          | 0          | 9              |
| TOTAL EDUCATION                  | 373                     | 478                   | 0              | 40         | 0          | 891            |
| COLLEGE OF ENGINEERING           |                         |                       |                |            |            |                |
| ENGINEERING (UNDECLARED)         | 15                      | 0                     | 0              | 0          | 0          | 15             |
| BIOENGINEERING                   | 0                       | 0                     | 11             | 0          | 4          | 15             |
| CERAMIC ENGINEERING              | 0                       | 0                     | 4              | 0          | 0          | 4              |
| CHEMICAL ENGINEERING             | 0                       | 2                     | 18             | 0          | 2          | 22             |
| CIVIL ENGINEERING                | 0                       | 9                     | 24             | 0          | 8          | 41             |
| ELECTRICAL ENGINEERING           | 0                       | 11                    | 35             | 0          | 10         | 56             |
| ENGINEERING MECHANICS            | 0                       | 0                     | 1              | 0          | 2          | 3              |
| ENVIR SYS ENGINEERING            | 0                       | 15                    | 22             | 0          | 11         | 48             |
| MATERIALS ENGINEERING            | 0                       | 0                     | 4              | 0          | 0          | 4              |
| MECHANICAL ENGINEERING           | 0                       | 8                     | 18             | 0          | 4          | 30             |
| SYSTEMS ENGINEERING              | 0                       | 0                     | 4              | 0          | 6          | 10             |
| TOTAL ENGINEERING                | 15                      | 45                    | 141            | 0          | 47         | 248            |



| MAJOR<br>-----                   | NON-<br>DEGREE<br>----- | PROF<br>MAST<br>----- | MA/MS<br>----- | EDS<br>--- | PHD<br>--- | TOTAL<br>----- |
|----------------------------------|-------------------------|-----------------------|----------------|------------|------------|----------------|
| COLLEGE OF IND MGT & TEXTILE SCI |                         |                       |                |            |            |                |
| IM&TS (UNDECLARED)               | 11                      | 0                     | 0              | 0          | 0          | 11             |
| ECONOMICS                        | 0                       | 0                     | 10             | 0          | 0          | 10             |
| ENGINEERING MANAGEMENT           | 0                       | 0                     | 0              | 0          | 15         | 15             |
| MANAGEMENT                       | 0                       | 0                     | 27             | 0          | 0          | 27             |
| MANAGEMENT SCIENCE               | 0                       | 0                     | 0              | 0          | 8          | 8              |
| TEXTILE & POLYMER SCIENCE        | 0                       | 0                     | 0              | 0          | 5          | 5              |
| TEXTILE CHEMISTRY                | 0                       | 0                     | 7              | 0          | 0          | 7              |
| TEXTILE SCIENCE                  | 0                       | 0                     | 6              | 0          | 0          | 6              |
| TOTAL IND MGT & TEXTILE SCI      | 11                      | 0                     | 50             | 0          | 28         | 89             |
| COLLEGE OF LIBERAL ARTS          |                         |                       |                |            |            |                |
| LIBERAL ARTS (UNDECLARED)        | 5                       | 0                     | 0              | 0          | 0          | 5              |
| ENGLISH                          | 0                       | 0                     | 32             | 0          | 0          | 32             |
| HISTORY                          | 0                       | 0                     | 10             | 0          | 0          | 10             |
| TOTAL LIBERAL ARTS               | 5                       | 0                     | 42             | 0          | 0          | 47             |
| COLLEGE OF NURSING               |                         |                       |                |            |            |                |
| FAMILY HEALTH NURSING            | 0                       | 0                     | 12             | 0          | 0          | 12             |
| TOTAL NURSING                    | 0                       | 0                     | 12             | 0          | 0          | 12             |
| COLLEGE OF SCIENCES              |                         |                       |                |            |            |                |
| SCIENCES (UNDECLARED)            | 5                       | 0                     | 0              | 0          | 0          | 5              |
| BIOCHEMISTRY                     | 0                       | 0                     | 10             | 0          | 8          | 18             |
| BOTANY                           | 0                       | 0                     | 9              | 0          | 0          | 9              |
| CHEMISTRY                        | 0                       | 0                     | 21             | 0          | 21         | 42             |
| COMPUTER SCIENCE                 | 0                       | 0                     | 10             | 0          | 0          | 10             |
| MATHEMATICAL SCIENCES            | 0                       | 0                     | 50             | 0          | 19         | 69             |
| MICROBIOLOGY                     | 0                       | 0                     | 29             | 0          | 0          | 29             |
| PHYSICS                          | 0                       | 0                     | 21             | 0          | 5          | 26             |
| ZOOLOGY                          | 0                       | 0                     | 20             | 0          | 23         | 43             |
| TOTAL SCIENCES                   | 5                       | 0                     | 170            | 0          | 76         | 251            |
| COLLEGE OF FOR & REC RESOURCES   |                         |                       |                |            |            |                |
| FOR & REC RES (UNDECLARED)       | 4                       | 0                     | 0              | 0          | 0          | 4              |
| FORESTRY                         | 0                       | 11                    | 16             | 0          | 0          | 27             |
| RECREATION & PARK ADM            | 0                       | 21                    | 0              | 0          | 0          | 21             |
| TOTAL FOR & REC RESOURCES        | 4                       | 32                    | 16             | 0          | 0          | 52             |
| -----                            |                         |                       |                |            |            |                |
| -----                            |                         |                       |                |            |            |                |
| GRAND TOTAL                      | 421                     | 709                   | 562            | 40         | 227        | 1959           |
| CLEMSON/FURMAN MBA PROGRAM       |                         | 177                   |                |            |            |                |

## Calendar of Campus Events

### DECEMBER 1980

- 1-5 -- "Architectural Thesis and Terminal Project Reviews," projects representing the culmination of six years of study in the College of Architecture. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2 - 5 p.m. Sundays. Open to the public, no admission charge.
- 1-3 -- Movie: "Oh! Heavenly Dog." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 1-7 -- Videotape: "Robin Williams." Sponsored by University Union, loggia, shown on request.
- 1 -- Classes resume.
- 2 -- Department of Music Student Recital, Daniel Auditorium, 7:30 p.m. Open to the public, no admission charge.
- 3 -- English Hour Lecture: "On Faulkner's Wit and Humor" by Prof. M. Thomas Inge. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.
- 3 -- Basketball: North Carolina (Women), Littlejohn Coliseum, 5:45 p.m.
- 3 -- Basketball: Samford (Men), Littlejohn Coliseum, 8 p.m.
- 4 -- Concert: Clemson University Chorus and Choral organization in a program of concert and seasonal music. Sponsored by Music Department, Clemson United Methodist Church, 8 p.m. Open to the public, no admission charge.
- 4-6 -- Movie: "The Fiendish Plot of Dr. Fu Manchu." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 6 -- Wrestling: Tiger Eight Invitational with Clemson, VPI, Old Dominion, Liberty Baptist, Appalachian State, East Carolina, UT - Chattanooga, and West Virginia. Jervey Athletic Center Gym, 10 a.m. - 7 p.m.
- 7 -- Free Flick: "Klute." Sponsored by University Union, YMCA Theater, 8 p.m.
- 8 -- Examinations begin.
- 8-19 -- Art Exhibition: "MFA Thesis Exhibition," projects representing two to three years of graduate study in the Department of Visual Studies. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2 - 5 p.m. Sundays. Open to the public, no admission charge.
- 10-11 -- Conference: "Quality Milk Production." Sponsored by Dairy Science Department. Open to dairymen and persons with dairy interests. Call 656-3230 for more information.

## CALENDAR OF CAMPUS EVENTS (Cont.)

13 -- Basketball: Maryland (Women), Littlejohn Coliseum, 5:45 p.m.

13 -- Basketball: Illinois Tech (Men), Littlejohn Coliseum, 8 p.m.

14 -- Free Flick: "The Way We Were." Sponsored by University Union, YMCA Theater, 8 p.m.





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DEC 15 1980

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



December 1, 1980  
Vol. 20 No. 8

CLEMSON UNIVERSITY  
SOUTH CAROLINA 29634

## MEETING FOR RETIRING EMPLOYEES SCHEDULED FOR DECEMBER 10

Employees planning to retire between now and July 1, 1981, will want to attend a meeting in Daniel Hall Auditorium Wednesday, Dec. 10 at 11 a.m.

Representatives from the S.C. Retirement System, the local office of the Social Security Administration and the University's Payroll and Employee Benefit Programs will be on hand to provide information and answer questions about retirement procedures, according to Dick Simmons, assistant personnel director.

If you are planning to retire by July 1, 1981, and have not received a letter about the meeting from Personnel, you should call Simmons (ext. 2426) as soon as possible.

Anyone else interested in retirement matters may attend also, he said.

Simmons said the Personnel Office will also schedule individual conferences Dec. 10 with prospective retirees who would like to discuss their retirement plans in private. If you would like to have a conference set up for you, contact Simmons immediately.

## VENDING MACHINE COMMITTEE ANNOUNCES FUNDING GUIDELINES

The Vending Machine Committee has announced its guidelines for considering requests for vending machine funds.

According to committee chairman and University budget director Jim Roberts, the committee decided to release the guidelines formally to clarify the policies and procedures used in allocating funds available from the various vending machines on campus.

Other members of the committee are Walter Cox, vice president for student affairs;

David Maxwell, provost; Oscar Lovelace, student body president; Stassen Thompson, Faculty Senate president; Robert Shaw, president of the Graduate Student Association; and John Newton, director of auxiliary services.

The guidelines are:

1. Any department or recognized organization of the University may request funds.
2. Requests, giving full justification and explanation of intended use of funds, should be submitted by memorandum to the chairman of the Vending Machine Committee.
3. Requests from student organizations funded by student government should be channeled through the Student Government Finance Committee.
4. Funds should be disbursed in accordance with University policies and procedures.
5. Requests for funding should generally be for activities that are not normally supported by regular departmental operating budgets.
6. Priority will be given to local activities that enhance the intellectual and cultural life of the community.

## ACCOUNTING AND FINANCE

B. Perry Woodside (Asst Prof) presented a paper, "Cash Balance Forecasting," at the quarterly meeting of the S.C. Cash Management Association Oct. 11 at Seabrook Island. Prof. Woodside also presented a paper, "The Lending Function of Financial Institutions During the 1980s," at the third annual Conference on Financial Institutions Sept. 27 in Norfolk, Va.

## ANIMAL SCIENCE

John R. Diehl (Assoc Prof) attended a

workshop, "Functional Correlates of Hormone Receptors in Reproduction," Oct. 13-15, sponsored by the Medical College of Georgia in Augusta, Ga. He also represented the department at the annual meeting of the Southern Regional Research Project S-137 where he gave a progress report on Clemson research projects that contribute to regional objectives and was elected to the executive committee as a member-at-large.

John C. Spitzer (Assoc Prof) co-authored with R. H. Carpenter two abstracts, "A Management Program for Production of Pregnant Ewes with Fetuses of a Known Gestational Age" and "Evaluation of 17 $\alpha$ -Acetoxy-11 $\beta$ -Methyl-19 Norpreg-4-ENE-3, 20, Dione (Norgestomet) for Synchronizing and Inducing Estrus in the Ewe to Produce Fetuses of Known Gestational Age," for the American Association of Laboratory Science, 31st annual session, Oct. 5-10 in Indianapolis, Ind.

Carl E. Thompson (Assoc Prof) presented a paper, "Beef Cattle Breeding Program for the 80s," at the sixth annual Beef Cattle Shortcourse Oct. 2 at Berry College.

## BIOCHEMISTRY

Carolyn S. Brown (Asst Prof) was recently listed in Who's Who In the South and Southwest for outstanding achievements and has also been selected for inclusion in the forthcoming edition of Who's Who of American Women.

J. M. Shiverly (Prof & Hd), G. L. Powell (Prof) and Thomas Duncan (Stu) attended the XVth Annual Regional Lipid Conference in Cashiers, N.C., where the following papers were given:

-- Duncan and Ten-ching Lee of Oak Ridge Associated Universities, "Formation of Fatty Alcohols in L-M Cultured Cells by trans Vaccenate and Linolelaidate Supplementation."

--Prof. Powell, Wayne W. Fish of the Medical University of South Carolina and John R. Grothusen (Grad Stu), "Is the Critical Micelle Concentration of Palmitoyl CoA Relevant to Regulation of Enzymes of Lipid Metabolism?"

Prof. Powell has been appointed chairman of the S.C. Heart Research and Alloca-

tions Committee, the group that reviews and recommends the award of small grants for initiating heart related research within the state, and he was the official delegate to the national meeting of Sigma Xi, the scientific research society, in San Diego, Calif., Oct. 10-13.

Prof. Powell presented the following seminars: "Specific Segregation of the Cardiolipin within the Boundary Layer of Cytochrome c Oxidase" to the chemistry department of the University of San Diego, Oct. 10; "Fatty Acyl-CoA Regulation of Citrate Synthase" to the department of chemistry of the University of North Carolina at Chapel Hill, Oct. 1; "The Specific Association of Cardiolipin within the Boundary Layer of Cytochrome c Oxidase a Membrane Enzyme" to the heart group at the University of California at Los Angeles and discussed his work with fatty acyl-CoA regulation with the research groups of C. A. West and D. F. Atkinson, UCLA chemistry department, Oct. 15; "Fatty Acyl-CoA Regulation of Enzymes of Lipid Metabolism" at the department of molecular biology and biochemistry at the University of California at Irvine, Oct. 16.

## BIOLOGY

D. R. Helms (Assoc Prof and Coord), R. A. Garcia (Asst Prof), S. B. Miller (Asst Prof), D. J. Stroup (Asst Prof), W. M. Surver (Asst Prof) and C. K. Wagner (Asst Prof) participated in the fall workshop of the S.C. Association of Biology Teachers Nov. 1-2 at the Medical University of South Carolina.

Prof. Garcia presided over a session of contributed papers at the 1980 convention of the National Association of Biology Teachers Oct. 23-26 in Boston, Mass.

## CHEMISTRY AND GEOLOGY

F. S. Mandel (Postdoc Assoc) and H. G. Spencer (Prof) have published a paper, "Point of Zero Charge of Synthetic Hydrous Zr(IV) Oxide Sols," in J. Colloid Surface Sci., 77 (1980), 577.

R. A. Abramovitch (Prof and Hd), an American Chemical Society tour speaker during the week of Oct. 14, visited five sections in West Virginia, Eastern Ohio



and Western Maryland and spoke at the University of West Virginia, Morgantown; at Ohio University, Athens; in Huntington and Charleston, W. Va.; and in Cumberland, Md. He also gave talks on "Chemistry, Medicine and Agriculture" to the ACS student sections at Marshall University, Huntington, and at Frostburg State College, Frostburg, Md.

#### DEVELOPMENT

Jim Strom (Dir) has been appointed to the Committee on Voluntary Support of the National Association of State Universities and Land-Grant Colleges.

#### ECONOMICS

Holley Ulbrich (Prof) spoke to the World Trade Council in Dalton, Ga., Oct. 16 on "Current U.S. Trade Policy."

Russell Shannon (Prof) published "Production Possibilities and the Price of Perfection," in Vol. 5 of Common Sense Economics.

Ralph Elliott (Assoc Prof and Dir, Profess Dev) participated in the following:

-- a presentation, "Using EDP as a Marketing Component in Tomorrow's Continuing Education Office," at the Continuing Health Education EXPO - 80 Marketing Conference Oct. 5-8 in San Antonio, Tex.

-- the article "What's in a Name? More Than You Realize!" published in P.S. Be Market Wise, II, No. 2 (1980).

-- a paper, "A Model of Voluntary Labor Turnover in the Textile Industry," presented with Sloan Crayton (Text Coord) at the Atlantic Economic Conference Oct. 9-12 in Boston, Mass.

-- a presentation, "Serving the Needs of Business and Industry," at the S.C. Association for Higher Continuing Education program Oct. 15-17 in Columbia.

-- an article, "Two Proxies for State Union Attitudes," published in the Atlantic Economic Journal, VIII, No. 2 (1980).

-- a visitation/consulting committee to review Georgia Tech's continuing education program.

Hugh Macaulay (Prof) and Richard McKenzie

(Prof) published an article, "A Bureaucratic Theory of Regulation," in Public Choice, (Fall 1980).

Prof. Macaulay also read a paper at a meeting of the Committee for Monetary Research and Education in St. Louis, Mo., Oct. 11 and discussed a paper at the annual meeting of the American Economic Association in Denver, Colo., Sept. 6.

#### ELEMENTARY AND SECONDARY EDUCATION

Barbara M. Raetsch (Asst Prof) chaired a session at the annual College Reading Association Conference in Baltimore, Md., Oct. 29 - Nov. 1 and served on the Clinical Division Program Committee to make plans for the 1981 conference.

Prof. Raetsch gave the keynote address, "Mainstreaming and IEPs," at the general session for Anderson County District Two In-service Day Nov. 3.

Robert P. Green Jr. (Asst Prof) held an in-service, "Techniques for Teaching Slower and Mainstreamed Students," for Abbeville County School District 60 Oct. 31.

#### ENGLISH

M. Thomas Inge (Prof & Hd) chaired a session of the American Humor Studies Association at the meeting of the South Atlantic Modern Language Association in Atlanta, Ga., Nov. 8. The program was devoted to an appreciation of Walt Kelly's comic strip character Pogo, and participants included Hallman Bryant (Assoc Prof), William Koon (Assoc Prof), Corinne Sawyer (Assoc Prof) and Mark Steadman (Prof).

Raymond Sawyer (Asst Prof, Drama) reviewed the Greenville Little Theater's production of "My Fair Lady" for the Greenville News.

Roger Rollin (Lemon Prof) read "The Anxiety of Identification: Ben Jonson and the Rival Poets" at the Fourth Biennial Renaissance Conference at the University of Michigan, Dearborn, Oct. 16.

John Idol (Assoc Prof) and Sterling Eisiminger (Assoc Prof) co-authored a paper on Hawthorne and the German-American artist Emanuel Leutze, which Prof. Idol read to The Nathaniel Haw-



thorne Society Oct. 3-4 in Concord, Mass. Prof. Idol also organized and chaired a session on melancholia in life and letters in the Tudor-Stuart Era for the Carolinas' Symposium on British Studies Oct. 4-5 at Appalachian State University. Prof. Idol edited a special issue of the "Proem" to Thomas Wolfe's O Lost for the Thomas Wolfe Society to commemorate the 50th anniversary of Look Homeward, Angel and presented it to members of the society Oct. 19 at St. Mary's College, Raleigh, N.C. He also read Edna Earle Ponder's "Good Country People" and led a discussion on Eudora Welty's The Ponder Heart at Anderson College Oct. 16.

Robert Hill (Assoc Prof) published two poems, "Concerned Teacher" in The Clearing House, 54, No. 1 (1980), 46, and "Some Move, Some Watch" in Teaching English in the Two-Year Colleges, 6, No. 3 (1980), 224.

Prof. Eisiminger published two poems, "Rites of Prey" and "Sky's the Limit: On Omnipotence and Omniscience," in RE: Artes Liberales, 6, No. 2 (1980). He also published "American Sampler Verse" in California English, 16, No. 5 (1980), 5-6.

#### ENTOMOLOGY, FISHERIES AND WILDLIFE

J. W. Foltz (Asst Prof) presented two four-hour classes on aquatic ecology and fishery biology to a group of professional foresters attending the USFS's silviculture short course conducted by the College of Forest and Recreation Resources Nov. 3-6.

M. J. Hinton (Former Grad Res Asst) and A. G. Eversole (Assoc Prof) published a paper, "Toxicity of Ten Chemicals Commonly Used in Aquaculture to the Black Eel Stage of the American Eel," in Proc. World Maniculture Soc., 10, 554-560.

J. C. Morse (Assoc Prof) has recently published a chapter, "Research Suggestions -- Benthic Invertebrates as Biological Indicators," in Biological Monitoring for Environmental Effects edited by Douglas L. Worf.

#### 4-H EXTENSION

E. Joyce Richardson (Sta 4-H & Youth Dev Coord and Assoc Prof, Home Ec) and Emily

Wiggins (Asst Prof, Home Ec) conducted a workshop, "Programming with Teens," as part of the annual meeting of the National 4-H Agents' Association in Detroit, Mich. Prof. Richardson was also presented that association's Distinguished Service Award for her 4-H program development efforts throughout South Carolina.

Cecelia Winiecki (Sta 4-H & Youth Dev Coord and Asst Prof, Home Ec) has been appointed to two national 4-H policy committees: the National Committee on 4-H Objectives, which recently published and distributed to states a comprehensive set of national 4-H goals and objectives, and a national committee on citizenship and 4-H materials.

#### HISTORY

Charles H. Lippy (Assoc Prof) was an invited member of a panel discussing "The Study of Popular Religion: Retrospect and Prospect" at the annual meeting of the American Academy of Religion Nov. 7 in Dallas, Tex.

In Religious Studies Review, VI (October 1980), Prof. Lippy reviewed Witches and Historians: Interpretations of Salem edited by Marc Mappen (p. 338); Old Brick: Charles Chauncy of Boston, 1705-1787 by Edward M. Griffin (p. 338); Glory Hallelujah: The Story of the Campmeeting Spiritual by Ellen Jane Lorenz (pp. 340-41).

Leonard Greenspoon (Asst Prof) was elected secretary of the International Organization for Septuagint and Cognate Studies at its annual meeting in Dallas, Tex., Nov. 8.

Denis Paz (Vstg Asst Prof) read a paper, "Anti-Catholicism and British Party Politics in 1851," at the Carolinas Symposium on British Studies Oct. 13 in Boone, N.C.

#### INDUSTRIAL MANAGEMENT

Jean L. Woodruff (Instr) was the proceedings editor for the 1980 Mid-Atlantic Marketing Conference and was presented the Distinguished Service Award by Civitan International for work done as an advisor to Clemson's Collegiate Civitan Club.

Michael J. Stahl (Assoc Prof) co-authored with C. W. Nichols of the Air Force Institute of Technology and T. R. Manley of the Florida Institute of Technology a paper, "A Longitudinal Test of the Moskos Institution Occupation Model," presented at the annual meeting of the Inter-University Seminar on Armed Forces and Society.

J. Michael McDonald (Assoc Prof) was recently a workshop leader for two courses, "Productivity and Performance in Health Care" (Sept. 29) and "How to Control Absenteeism in the Health Care Setting" (Sept. 30), sponsored by the University of Alabama's College of Community Health Sciences and Capstone College of Nursing.

#### LANGUAGES

Rob Roy McGregor (Prof) coordinated the French and Classics sections and organized and chaired a section on Eighteenth Century French literature at the Mountain Interstate Foreign Language Conference here Oct. 23-25.

#### MATHEMATICAL SCIENCES

Robert E. Haymond (Prof) was chairman of the session on graphics and networks at the national ORSA/TIMS meeting in Colorado Springs, Colo., Nov. 9-11. He also co-authored a paper, "Methods for Minimal Spanning Trees," with James P. Jarvis (Assoc Prof) and Douglas Shier (Nat Bur of Standards), who presented the paper.

John Kenelly (Prof) helped coordinate and chaired a panel discussion, "The 1980 Advanced Placement Examination in Mathematics," at the Nov. 7-8 third annual fall conference of the S.C. Council of Teachers of Mathematics of which he is vice president.

Also during that meeting:

-- John Fulton (Prof and Hd) gave an invited lecture, "What Mathematicians Do -- Statisticians," and presided over two other sessions.

-- Stanley Lukawecki (Prof) gave an invited address, "Annual High School Mathematics Examination," and presided over another session.

-- Prof. Kenelly was re-elected executive secretary of the S.C. Advanced Placement Teachers of Mathematics.

Robert Jamison (Assoc Prof) presented a colloquium, "Convexity in Chordal Graphs," Nov. 6 and spoke on "Characterizing Categorical Alignments" in the University of South Carolina's EPSCOR Research Seminar Nov. 7.

Prof. Kenelly attended meetings of the Mathematical Association of America Committee on Placement Examinations Nov. 14-16 in Washington, D.C. In addition to other business, the committee reviewed the fall issue of the association's "Placement Test Newsletter" of which Prof. Kenelly is editor.

Prof. Kenelly was one of four speakers at an invitational conference sponsored by the S.C. Department of Education Nov. 18 in Columbia for key school district officers and was responsible for discussing the competency elements that relate to teachers of college-bound students.

T. G. Proctor (Prof) chaired a meeting of the Education Committee of the Society for Industrial and Applied Mathematics in Houston, Tex., Nov. 9.

Prof. Jamison, the invited colloquium speaker at the University of North Carolina in Charlotte, lectured on "Similarities Between Convexity and Semilattices" and, as guest speaker at the Combinatorics Colloquium of UNC-Chapel Hill, presented a discussion, "Antimatroids and Chordal Graphs." He did both Oct. 31.

Prof. Kenelly chaired a meeting of the College Board's Advanced Placement Mathematics Committee Oct. 31 - Nov. 2 in Austin, Tex., and presented "The College Board Advanced Placement in Mathematics -- Today and Tomorrow" with two other committee members. Prof. Kenelly discussed the advanced placement program in South Carolina with secondary teachers in Anderson County District Two Nov. 3 as part of the district's in-service training day.

Prof. Lukawecki participated in Aiken High School's Mu Alpha Theta Club's



initiation Oct. 31 and presented a talk, "Careers in Mathematical Sciences," to that group.

Nathaniel Macon (Vstg Prof) attended the meeting of the Board of Governors of the International Council on Computer Communication Oct. 31 in Atlanta, Ga. He is the retiring executive secretary of the council and was elected vice president of the Board of Governors.

#### NURSING

Priscilla W. Ramsey (Vstg Instr) was presented the American Journal of Nursing Excellence in Writing Award at the S.C. Nurses' Association in Columbia for her manuscript, "The Influence of Prejudice on Women and Nursing."

Judith J. Chodil (Assoc Prof and Dir, Cont Educ) has been appointed to the executive committee of the Council on Continuing Education of the American Nurses' Association.

Veronica F. Rempusheski (Asst Prof) presented a workshop, "Principles of IV Fluid Administration," here Nov. 1. She was assisted by Ann Rawlings (Vstg Instr).

Professors and students gave free health screenings for diabetes, high blood pressure, hearing and vision problems Nov. 15 at the Village Arts and Crafts Fair in Six Mile.

#### PHYSICS AND ASTRONOMY

Burt V. Bronk (Prof) and Dana G. Walbridge (Former Grad Stu) have published a paper, "Sensitivity to Ultraviolet Radiation as a Function of DNA Content in *Escherichia coli* B/r," in Biophysics J., 31 (1980).

John R. Ray (Prof) recently attended the Southeastern Section of the American Physical Society meeting in Chapel Hill, N.C., where he presided over the session on astronomy, relativity and gravitation.

P. A. Cardegna (Grad Stu) and A. L. Laskar (Prof) presented a paper, "Diffusion of Monovalent Rubidium in Silver Bromide," at the Southeastern section of American Physical Society meeting held at UNC, Chapel Hill, N.C., Nov. 6-8.

#### POLITICAL SCIENCE

Charles W. Dunn (Prof and Hd) served as a discussant on "The Role of Governors in the 1980s" at the Southern Political Science Association meeting in Atlanta, Ga., Nov. 6-8.

Prof. Dunn spoke on "Professors and Politicians: Shedding Cloaks of Innocence and Ignorance" at the American Association of University Professors meeting here Nov. 24.

Michael A. Morris (Asst Prof) presented a paper, "Naval Arms Trends and Naval Arms Control in Latin America," at the Latin American Studies Association meeting in Bloomington, Ind., Oct. 17-19.

Prof. Morris also delivered the following:

-- a lecture to the United Nations Disarmament Fellows Sept. 3.

-- a lecture at the Center for Strategic and International Studies of Georgetown University Oct. 14.

-- a lecture at the Center for Naval Analyses, Washington, D.C., Oct. 15.

#### PROFESSIONAL DEVELOPMENT

John H. Marvin (Prof, Text) is chairman for a two-day conference, "Current Technology in Carding and Sliver Preparation," here Dec. 2-3.

Raymond Sawyer (Asst Prof, Eng) is lecturer for a two-day workshop, "Effective Public Speaking," here Dec. 16-17.

#### PSYCHOLOGY

The following presented papers at the Southeastern Society of Social Psychologists' Conference Oct. 25 in Columbia:

-- Jerry Frey (Asst Prof) and Rosemary Lowe (Asst Prof), "Predicting Decisions About Childbirth Methods: the Fishbein-Ajzen Model."

-- David Senn (Assoc Prof), "Institutional Review, Ethics, and Social Psychological Research."

The following presented papers at the S.C. Psychological Association Convention Oct. 24-26 in Myrtle Beach:

-- Ronald Nowaczyk (Asst Prof), "Using

### Information Learned via Mnemonics."

-- Patrick Gill (Vstg Asst Prof), "Mutual Influence Between Parent and Child in Socialization."

-- John Wright (Vstg Asst Prof), "Early Social Development in Canis Familiaris."

### RECREATION AND PARK ADMINISTRATION

Paul Richard Saunders (Asst Prof) served as a discussion leader for a group which developed priorities for research, management, and public involvement for balds on private, state, U.S. Forest Service, and National Park Service lands at the Southern Appalachian Resource/Research Management Cooperative sponsored Southern Appalachian Balds Workshop in Crossnore, N.C., Nov. 5-7. In addition, he will be editor of the workshop proceedings.

Lawrence W. Gahan (Prof) was installed as president of the Citizens-Board Members Branch of the National Recreation and Park Association at the branch banquet Oct. 21, during the annual Congress for Recreation and Parks in Phoenix, Ariz. Prof. Gahan also served as panelist/speaker during the educational program designed to introduce and orient citizen leaders about NRPA and CBM Branch.

Jack Stevenson (Prof) led two workshops, "Personal and Professional Applications of Interpersonal Communication," and gave an invited lecture, "Trends in the Recreation Profession," for students and faculty in the recreation, physical education and psychology departments at Berry College in Rome, Ga., Oct. 23.

Brian J. Mihalik (Asst Prof) made a presentation, "Role and Extent of the Clemson University Recreation Extension Program," to participants at the 1980 S.C. Recreation and Parks Society Conference in Myrtle Beach. Prof. Mihalik had two articles in recreation and park administration publications: "The Practitioner's Perspective of Research" in Pennsylvania Recreation, and Parks, XII, No. 1 (1980) and "Clemson University Extension Service" in Omnibus, IX, No. 5 (1980).

### TEXTILES

Thomas D. Efland (Prof and Actng Dean, IM&TS) presented a paper, "The Spectrum of Textile Education in the United States," along with Dean F. Zeglen of the Institute of Textile Technology at the Textile Institute 64th Annual Conference, "Managing Technological Change," in Asheville, N.C., Oct. 14.

Frederick T. Simon (J.E. Sirrine Prof) presented a paper, "Colour Technology: A Better Answer," at the Textile Institute 64th Annual Conference Oct. 15.

Hassan M. Behery (Assoc Prof) served as program chairman and Edward A. Vaughn (Prof and Hd) served as conference chairman for the Textile Institute Annual Conference, an international gathering of textile scientists held for the first time in the United States.

Prof. Vaughn presented three workshops, "Basic Concepts of Nonwoven Fabrics," at the International Nonwoven Fabrics Biennial Conference and Exposition, IDEA-80, in Chicago, Ill., Oct. 14-16.

E. S. Olson (Prof) presented a paper, "Update on Foam Processes," before the technical subcommittee of the S.C. Textile Manufacturer's Association Sept. 25.

Prof. Olson also presented a paper, "Parameters of Foam Dyeing," at the Palmetto Section of the American Association of Textile Chemists and Colorists in Rock Hill Oct. 11.

B. L. Rutledge (Assoc Prof) was appointed by the Palmetto Section of AATCC as one of the judges for the National Intersectional Technical Paper Competition at the AATCC National Meeting in Boston, Mass.

### UNIVERSITY UNION

Bill Mandicott (Prog Dir) and Marcia Kennard Kiessling (Asst Prog Dir) presented a session, "Grantwriting: The Basics," at the 1980 National Entertainment and Campus Activities Association Southeast Regional Conference. Mandicott was also a member of this year's conference planning committee and a member of the Southeast Regional Steering Committee.



## Calendar of Campus Events

### December 1980

- 15-19 -- Art Exhibition: "MFA Thesis Exhibition," a review of work representing two to three years of graduate study in the Department of Visual Studies. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2 - 5 p.m. Sundays. Open to the public, no admission charge.
- 16 -- Basketball: Tennessee Tech (Women), Littlejohn Coliseum, 5:45 p.m.
- 16 -- Basketball: West Virginia Tech (Men), Littlejohn Coliseum, 8 p.m.
- 16-17 -- Workshop: "Effective Public Speaking." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 17 -- General faculty meeting, Littlejohn Coliseum, 10 a.m.
- 17-18 -- Workshop: "Supervisory and Foremanship Skills." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 18 -- Mid-year graduation, Littlejohn Coliseum, 11 a.m.
- 18 -- Army and Air Force ROTC Commissioning exercise, Daniel Auditorium, 9 a.m.
- 19 -- Residence halls close at 8 a.m.
- 19 -- Workshop: "Effective Customer Relations." Sponsored by Office of Professional Development, call 656-2200 for more information.

DEC 15 1980

CLEMSON UNIVERSITY  
SOUTH CAROLINA

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



December 15, 1980  
Vol. 20 No. 9



CLEMSON  
UNIVERSITY

PRESIDENT

December 15, 1980

Dear Colleague,

Much has been written and said during the past few months about Clemson's "people-oriented" services and activities. We have made the point time and again that high quality teaching, research and public service result only when talented, dedicated people work together for a common purpose.

The successes of our university are evidence of the high quality and togetherness of our faculty and staff.

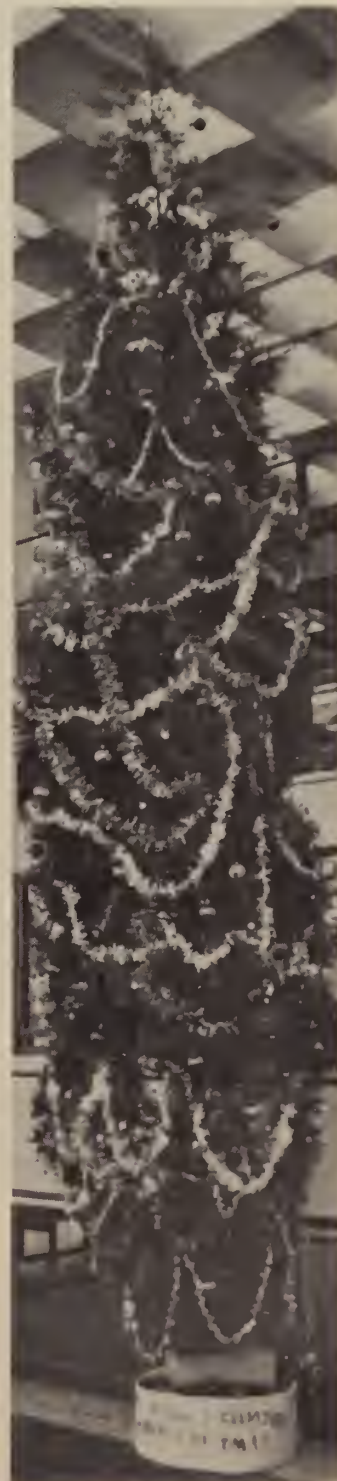
I personally thank you for the good work you have done, for the contributions you have made to the University and for the cooperation and support you have given me.

As we begin a new year, I am encouraged by the thought that individuals such as you will be working to maintain this institution's excellence. I know you will join me in 1981 in working even harder to improve and expand Clemson's programs and services to levels of accomplishment never before reached.

Pat and I send to you and your family our best wishes during this holiday season.

Sincerely,

Bill Atchley



# ADDITIONAL COLLOQUIUM PARTICIPANTS ANNOUNCED BY HONORS COUNCIL

The Honors Council has announced the names of the two remaining humanists who will participate in the first President's Honors Colloquium Jan. 13-15.

Claire Gaudiani, a professor of French at Emory University, and Michael A. Lofaro, an assistant professor of English at the University of Tennessee, will join Duquesne University historian John Opie and Harvard University anthropologist Akos Östör in addressing the theme "Distant Tremors: The Humanist as Seismograph."

In making the announcement, Honors Council chairman Corinne Sawyer said, "We are delighted to have scholars of the caliber of Gaudiani and Lofaro as colloquium participants."

"They, along with the two distinguished humanists earlier announced, are at the tops of their respective fields."

Each of the four humanists is currently a Fellow at the National Humanities Center in Research Triangle, N.C.

Gaudiani received her Ph.D. from Indiana University and is currently working on her third book in the field of 17th century French literature.

While teaching at Indiana she co-conducted with a zoology professor an interdisciplinary seminar, "Literature and Science in the Context of Development of a Moral Philosophy," and as a member of the National Board of Consultants to the National Endowment for the Humanities, she has assisted 20 universities in developing humanities curricula.

She also serves as a consultant on language pedagogy and management in higher education and has held a fellowship from the American Council of Learned Societies.

ON THE COVER -- The University's Christmas tree standing in the lobby of the library was provided by the forestry department. The tree was decorated by Alpha Phi Omega National Service Fraternity.

Lofaro studied at Rensselaer Polytechnic Institute, where he minored in aeronautical engineering, before earning his Ph.D. in American literature from the University of Maryland.

He is the author of The Life and Adventures of Daniel Boone and numerous articles on American folklore and is now completing another book, Boone and Crockett: The Role of the Frontier Culture Hero in American Thought, 1784-1980.

In 1978-79 he served as project member of "Threads," a National Endowment for the Humanities grant designed to bring the humanities to members of the Amalgamated Clothing and Textile Workers Union in Knoxville, Tenn.

Lofaro has served as project member on three NEH programs to bring the humanities to general audiences via public television, museums and lectures.

Opie received his Ph.D. from the University of Chicago and currently is contributing to an interdisciplinary project, "Energy and the Values of Modern Society."

He is founding editor of "Environmental Review" and founder of the American Society for Environmental History. He serves as a consultant to the National Science Foundation, the National Endowment for the Humanities and the Westinghouse Corp.

As a Westinghouse consultant, Opie teaches a course on the relationship between technology and society for engineers and management personnel.

His current research and writing deal with technology and changing American values, American agricultural history, myths and symbols in American landscape and environmental history, and the visual experience of arid America.

Östör earned degrees from the University of Melbourne and the University of Chicago and has held positions at the University of Minnesota, the American Institute of Indian Studies, the Institute for Advanced Studies at Princeton, the University of Khartoum and the Peabody Museum.

He is the author of several books and





**DISCUSSING THE MASTER PLAN** -- Left to right, Jim Hambright a consultant working on the University's comprehensive master plan, explains the planning process to Lin Dearing, associate professor of mathematical sciences, and John Madera, a senior from Greer.

numerous articles and is the recipient of fellowships from the National Science Foundation, the Ford Foundation, the Social Science Research Council and Harvard University.

At present he is conducting research into different cultural concepts of time.

Specifically, he is examining how advanced industrial societies, dominated by economic production and market relations, regulate their functions chronologically compared to Third World nations whose cycles of time in social relations reflect a more "holistic" society.

During the colloquium, each of the visiting scholars will present a paper, deliver class lectures and meet informally with students.

The papers will be presented at 3:30 and 8 p.m. Jan. 13 and 14 in Lee Hall Auditorium.

#### **PROCESS UNDER WAY TO DEVELOP COMPREHENSIVE MASTER PLAN**

Development of a comprehensive master plan for the campus will continue through 1981, according to consultants working on the plan.

Project director Jim Boniface of Lockwood Greene Inc., an international architectural and engineering firm assisting the

University in the planning process, said a step-by-step approach is being taken to developing the plan and that a final report should be ready for submission to the University by January 1982.

He said the purpose of a master plan is to serve as a guide for growth and development. "Everything from utilities to enrollments to buildings to bicycle paths should be considered and planned for now so that as the future unfolds, growth and development will occur in harmony with the University's goals and needs," he said.

Boniface, Jim Hambright also of Lockwood Greene, and Truitt Rabun of Edward Pinckney Associates, a consulting firm specializing in landscape architecture, were in the library Dec. 1-5 collecting data and talking with faculty and staff members and students.

"What we are doing now," Boniface explained, "is seeking out advice and opinions from the members of the campus community. We want to get a good understanding of what is here and of what people want."

He said the consulting team will analyze the information and opinions received to "formulate goals of the community which will in turn serve as a basis for designing a plan."



This analysis will be completed during the spring, he said.

"We'll be coming to campus periodically -- especially in the early part of next year," he said, "to talk to various faculty, staff and student groups. We'll be asking questions ranging from 'How do you feel about the trees on campus?' to 'Are there any anticipated changes in curricula that might affect enrollment patterns?'"

"What we're after is a clear understanding of the character and special qualities of Clemson as well as of the academic and physical aspects of the campus."

"Mark Wright (assistant campus master planner) has described what our aim is pretty well by saying we want to develop a 'logical order for meeting the changing needs of the University in the future,'" Boniface said.

"To do this the plan must look at the educational, physical and financial growth and development of Clemson that might happen over the next several years."

Boniface said the interest shown by faculty, staff and students during the planners' stay in the library indicates the University community's desire to participate in the planning process.

"We've gotten a very good response this week," he said. "People are concerned about parking, and the trees on campus and the campus' special places such as the Outdoor Theatre and Tillman Hall."

"It's important for us to know these things, and we look forward to hearing more as our work continues next year."

#### **SPRING REGISTRATION WILL AFFECT SOME EMPLOYEE PARKING AREAS**

The east end of the Physical Plant parking lot, the north end of the Sirrine Hall lot and all parking spaces along South Palmetto Boulevard from the Alumni Park to Highway 93 will be reserved for student use Jan. 4-5 (Sunday and Monday), 1981.

These special arrangements will be made to accommodate students moving into

residence halls during the spring semester registration period.

If you normally park in one of the affected areas, during registration you should park in the resident lot on East Campus (R-1), the resident lot bordered by Williamson and Perimeter Roads (R-2) or the resident lot behind the football stadium (R-4).

Shuttle buses will operate on 15-minute schedules between those lots and the center of campus from 7 a.m. to 5 p.m. Jan. 4-5.

No employee spaces will be reserved for student use Jan. 6-7, but Bowman Field will be available for overflow faculty and staff parking on those days. Those are the only days (Tuesday and Wednesday) Bowman Field will be used for faculty and staff parking.

#### **SEMINAR PLANNED FOR RESEARCHERS INTERESTED IN NSF-EPSCoR GRANT**

A seminar for researchers interested in learning more about a National Science Foundation Experimental Program to Stimulate Competitive Research (EPSCoR) Grant in environmental systems engineering is being planned for late February.

According to project director Alan Elzerman, assistant professor of environmental systems engineering, the seminar will provide an opportunity for participants to present current research topics, to determine mutual interests and to develop contacts between researchers working on environmental or ecological projects in all disciplines.

Anyone interested in helping organize the seminar should contact Elzerman (ext. 3276).

#### **PERSONNEL OFFICE MOVING TO ANDERSON HOUSE**

The Personnel Office, now on the ground floor of Sikes Hall, will move to the Anderson House on Highway 93 (across from the tennis courts) by Dec. 29, according to personnel director Ray Thompson.

Thompson said his staff will be preparing for the move all this week (Dec. 15-19) and that office furniture and equipment will be moved to the Anderson House



**YULE NEVER BELIEVE IT --** Trimming the tree for the annual Christmas candlelight tour at the historic Hanover House are these student volunteers whose surnames read like the lyrics of a favorite yule tune. Left to right are Peter Snowball of Spartanburg, Candy Holliday of Seneca, Gayla Noel of Anderson and Carol Christmas of Durham, N.C. The candlelight tour was held Dec. 9 and featured the 18th century colonial home adorned with handmade decorations of the period.

during the Christmas holidays.

The relocation will be completed by Monday, the 29th, when employees return from the holiday break.

"Of course it will take time for us to get settled in," Thompson said, "but we're certainly glad to have the new accommodations."

Personnel's telephone extension, 2426, will not change.

#### 1981 HOLIDAYS ANNOUNCED

The 1981 holiday schedule for non-teaching employees has been released by the President's Office.

There will be 11 official holidays next

year:

--New Year's Day, Jan. 1

--Spring Break, March 19 and 20

--Independence Day, July 3

--Thanksgiving, Nov. 26 and 27

--Christmas, Dec. 21, 22, 23, 24 and 25

If your job involves an unusual work schedule or otherwise prevents you from taking one of the normal holidays, you should check with your supervisor about working out an alternate holiday pattern.

#### ARCHITECTURE

James E. Dalton (Prof and Asst to the Dean) participated in a joint meeting of



the National Board of Architectural Registration Boards, National Architectural Accrediting Board and the Associated Collegiate Schools of Architecture Oct. 8-10 in Knoxville, Tenn., where discussion centered around the accrediting process and professional registration testing methods.

Martin Davis (Assoc Prof) participated in the 5th Passive Solar Conference sponsored by the American Section of the International Solar Energy Society, the Department of Energy and the University of Massachusetts Oct. 20-25 at the University of Massachusetts at Amherst, Mass., and in planning sessions for next year's conference.

Juji Kishimoto (Assoc Prof) delivered a paper, "Housing in Japan after World War II," at the United Nation's Day Conference, a comparative analysis of housing development between Japan and West Germany after World War II, sponsored by the International Club and the United Nations Oct. 30-31 at Virginia Tech in Blacksburg, Va.

Prof. Kishimoto published a short article on Kiyomeri Kikutake in SD (Space Design), 193, No. 8010, 157.

Prof. Davis presented a paper at the International Conference on Energy Resources and Conservation Related to Built Environment" sponsored by the International Association for Housing Science, Florida International University and Florida Power and Light Dec. 7-11 at Florida International University in Miami.

## BIOCHEMISTRY

At a joint meeting of the Kentucky, Tennessee, North Carolina and South Carolina branches of the American Society for Microbiology Nov. 13-15 in Gatlinburg, Tenn., the following papers were given:

--"Intermediary Carbon Metabolism by Beggiatoa alba"; W. R. Strohl (Dept. of Microbiology, Ohio State Univ.), G. C. Cannon (Grad Stu), J. M. Shively (Prof and Hd) and J. M. Larkin (LSU).

--Structural Studies of Carboxysomes from Thiobacillus neapolitanus"; Cannon, M. N. Toth (Grad Stu) and Prof. Shively.

--"Extrachromosomal DNA of Thiobacillus neapolitanus"; Toth, Cannon and Prof. Shively.

Prof. Shively also chaired a session, "Genetics and Molecular Biology."

## BUILDING SCIENCE

At a regional meeting of the Associate Schools of Construction here Oct. 30-31, guest speaker Menzies Wilson of South General Construction Company spoke on "The Professional Quantity Surveyor in Great Britain." Attending the meeting were representatives from the University of North Carolina at Charlotte, Auburn University, Memphis State University, the University of Southern Mississippi and the University of Florida.

## CHEMICAL ENGINEERING

J. M. Haile (Assoc Prof) presented an invited seminar, "Study of Liquids by Computer Simulation," Nov. 3 to the faculty, graduate students and senior class of the chemical engineering department at Vanderbilt University in Nashville, Tenn.

W. B. Barlage (Prof and Hd) presented an invited seminar, "Diffusion of Solutes in Non-Newtonian Liquids Under Conditions of Known Shear Rates," Nov. 5 to the faculty and graduate students of the chemical engineering department at Lehigh University in Bethlehem, Pa.

John N. Beard Jr. (Prof) presented an invited paper, "The Analysis and Optimization of Decorative Laminate Treaters," Nov. 13 at the Fourth International Decorative Laminates Seminar sponsored by Westvaco in Cannes, France.

R. D. Swindoll (Grad Stu) and Prof. Haile presented a paper, "Computer Simulation of n-Butane," Nov. 17 at the 73rd annual meeting of the American Institute of Chemical Engineers in Chicago, Ill.

## CHEMISTRY AND GEOLOGY

Keith McDowell (Assoc Prof) has published a paper, "Application of CIBS Theory to the H<sub>2</sub> Molecule," in the Journal of Chemical Physics, 73, p. 4138.

## CIVIL ENGINEERING

Subhash C. Anand (Prof) and David T.

Young (former Grad Stu) attended the ASCE National Convention and Exposition, Oct. 27-30 in Hollywood-by-the-sea, Fla., where they presented a paper, "A Finite Element Model for Composite Masonry." Prof. Anand chaired a session, "Some Special Topics on Inelastic Behavior," organized by him as chairman of the Committee on Inelastic Behavior of the Engineering Mechanics Division of ASCE with which he met formally to discuss plans for future operations, memberships, sessions, paper reviews and other functions.

Prof. Anand and Ashok Pandit (Grad Stu) co-authored a paper, "Effect of Mesh and Domain Sizes as well as Underrelaxation Factors on Finite Element Solutions of Non-Linear Groundwater Flow and Mass Transport Equations," in Numerical Methods in Non-Linear Problems, 1, (proceedings of the international conference at the University College of Swansea, England, Sept. 2-5.)

#### ECONOMICS

Holley Ulbrich (Prof) spoke on "American Trade Policy" Oct. 16 to the World Trade Council of Chattanooga, Tenn., and on "Basics of the American Economic System" Nov. 11 to ELECT, a minority leadership program, in Greenville.

Hugh Macaulay (Alumni Prof) published "A Tale of Three Kingdoms" in USA Today and delivered two lectures at Pembroke State University Nov. 19.

Myles S. Wallace (Asst Prof) and Rex L. Cottle (Assoc Prof and Hd) had accepted for publication in the Atlantic Economic Journal an article, "Does Perfect Knowledge Really Mean Perfect Knowledge." Prof. Wallace co-authored an article, "The Short-Run Transmission of U.S. Price Changes Under Fixed and Flexible Rates: Evidence from the U.K.," accepted for publication in the Southern Economic Journal. He also presented a paper, "Government Provided Information and Economic Stability," and co-authored another paper, "Cyclical Sensitivity of Components of the United States Money Supply," presented at the Southern Economic Meetings in November.

Richard McKenzie (Prof) had published "The Labor Market Effects of Minimum Wage

Laws: A New Perspective" in Journal of Labor Research (Fall 1980); "The Economic Justification for Government and Self-Perpetuating Government Growth" in Journal of Social and Political Studies (Fall 1980); "Participacion en los Ingresos y Gobierno Monopolista" in Hacienda Publica Espanola (Fall 1980); and "Vodkanomics: Stochastic Thoughts on Inebriation and Longevity" in Journal of Irreproducible Results (Fall 1980).

Prof. McKenzie spoke on "New Directions for Plant Closing Legislation" to the Indiana State Chamber of Commerce Oct. 28

Prof. Cottle gave a speech, "Inflation and the New Administration," at the Christian Women's Associations of Clemson and Seneca Nov. 10 and had a paper, "Leisure as Work: A Case in Professional Sports," accepted for publication by the Atlantic Economic Journal and another paper, "Economics of the Professional Golfers' Association," accepted for publication by the Social Science Quarterly.

Ralph D. Elliott (Assoc Prof and Dir of Profes Dev) was awarded a scholarship by the Fiscal Policy Council to attend the fourth National Forum on Jobs, Money and People on "The Politics of Innovations and Productivity" at Innisbrook, Fla., Dec. 7-10.

Russell Shannon (Prof) spoke on "Energy Economics: Nobody Can Do It Like the Market Can" to the Rotary Club in Walhalla Nov. 3 and to Women in Energy in Greenville Nov. 5.

#### ENGINEERING GRAPHICS

Dan Ryan (Assoc Prof) presented a paper, "Computer Graphics in Undergraduate Engineering and Technology Education," at the annual Engineering Design Graphics Conference sponsored by ASEE Nov. 24-26 at William and Mary University.

Prof. Ryan presented a paper, "Computer Graphics in Freshman Engineering Programs: When, Where, How and How Much of It" at the annual Frontiers in Education Conference sponsored by ASEE Oct. 20-22 at the University of Houston.



## ENGINEERING TECHNOLOGY

Carl R. Lindenmeyer (Assoc Prof) has been selected for a two-year term beginning Jan. 1, 1981, on the Editorial Board of Review for Industrial Management, a publication of the Industrial Management Society.

## ENVIRONMENTAL SYSTEMS ENGINEERING

T. M. Keinath (Prof and Hd) was one of 56 engineering academicians who participated in an invited engineering symposium sponsored by Exxon Research and Engineering Co. Nov. 6 in Florham Park, N.J.

## HISTORY

Elizabeth Carney (Asst Prof) gave a talk, "The First Flight of Harpalus, Again," for the Southern Section of the Classical Association of the Midwest and South Nov. 7 in Athens, Ga.

## HISTORY AND VISUAL STUDIES

Tom Dimond (Asst Prof) participated in the Springs Mills Traveling Art Exhibit Oct. 24-Nov. 9 at the National Guard Armory in Lancaster and received honorable mention for his painting, "Variex VII," selected as one of 34 works included in the exhibit which will travel to six locations in the Carolinas and Georgia.

Prof. Dimond also participated in a show at Winthrop College Art Gallery in Rock Hill Oct. 21-Nov. 14.

## INDUSTRIAL MANAGEMENT

E. Earl Burch (Prof) presented an invited speech, "Industrial Acceptance Sampling," to the Savannah Chapter of the American Society of Quality Control in Augusta, Ga., Oct. 28.

Michael J. Stahl (Assoc Prof) presented a paper, "Modeling Course Effort Decisions with Behavioral Decision Theory," at the National American Institute of Decision Sciences meeting in Las Vegas, Nev., Nov. 5-7. The paper, co-authored with A. M. Harrell of the University of South Carolina, was recognized as the Distinguished Contributed Paper in Organizational Behavior.

Prof. Stahl also presented "Anticipated Satisfaction, Current Satisfaction and

Turnover Intentions" at the meeting. Both papers were published in the referred proceedings.

Paul F. Petersen (Instr) was named to Who's Who in the South and Southwest for outstanding achievement in the field of education.

The annual conference of the Mid-Atlantic Marketing Association was hosted here Oct. 11 by the department of industrial management. Participating in the program were Gerald L. Waddle (Assoc Prof), conference co-chairman; Jean Woodruff (Instr), editor of the proceedings; Louis Stone (Asst Prof), session chairman; and John Hill (Asst Prof), session chairman.

J. Michael McDonald (Assoc Prof) was an invited speaker at the annual meeting of the Carolina Society for Training and Development Oct. 23 in Columbia.

## INTERDISCIPLINARY STUDIES

Naser N. Salman (Grad Stu) and Joon B. Park (Assoc Prof) have published a paper, "The Effect of Direct Electrical Current Stimulation on the Bone/Porous Metallic Implant Interface," in Biomaterials, 1, (1980), 209-213.

## LANGUAGES

At the 30th annual meeting of the Mountain Interstate Foreign Language Conference Oct. 23-25:

--S. Carl King (Asst Prof, Span), president of the organization for 1980, coordinated the activities of the conference.

--Edwin P. Arnold (Asst Prof, Ger) read a paper, "Coping in the German Democratic Republic."

--Mechthild Cranston (Instr, Fr) organized a section on the art of translation.

--Gaston J. Fernandez (Prof, Span) read a paper, "La Consagracion de la Primavera: Rito y Mito."

--Pedro Parrado (Asst Prof, Span) read a paper, "Nacimiento de Castilla."

--Leonard T. Perry (Asst Prof, Span) chaired a section on Spanish medieval and renaissance literature.

--John B. Romeiser (Asst Prof, Fr) read a

a paper, "Journalism into Fiction: A source for Malraux's L'espoir."

-- Leon Seamon (Asst Prof, Span) chaired a 20th Century section of Spanish literature.

--Russell Willingham (Instr, Fr) chaired a section on French Black African literature.

#### MATHEMATICAL SCIENCES

Joel V. Brawley (Prof) and John D. Fulton (Prof and Hd) gave invited papers at the 782nd meeting of the American Mathematical Society in Knoxville, Tenn., Nov. 14-15. Also attending the meeting was Stephen Benz (Grad Stu) who gave a preliminary report, "Parameter Estimation for Retarded Functional Equations in a Reproducing Kernel Hilbert Space," co-authored with Robert Fennell (Assoc Prof) and James Reneke (Assoc Prof). Prof. Brawley's paper, "Counting Matrices by Drazin Index," and Prof. Fulton's paper, "Fibonacci Numbers Which are Primes," were given at special sessions on number theory.

P. M. Dearing (Assoc Prof) presented a paper, "Scheduling Loom Changeovers in a Textile Weaving Operation," at the national ORSA/TIMS meeting in Colorado Springs, Colo., Nov. 10.

Prof. Fennell has been named secretary-treasurer of the Southeast Atlantic Section of SIAM (Society of Industrial and Applied Mathematics).

#### NURSING

Ann Rawlings (Vstg Instr) presented a workshop, "Techniques of Venipuncture," here Nov. 15. The workshop was also presented Nov. 20 at the Spartanburg County Health Department.

#### PHYSICS AND ASTRONOMY

R. Cecil Gentry (Vstg Prof) presented an invited paper, "History of Hurricane Research in the United States with Special Emphasis on the National Hurricane Research Laboratory and Associated Groups," at the 13th Technical Conference on Hurricanes and Tropical Meteorology of the American Meteorological Society Dec. 1-5 in Miami Beach, Fla.

Raymond C. Turner (Assoc Prof) presented a paper, "An EPR Study of Free Radical Generation Versus Mixing Ratio in PMMA Bone Cement," co-authored by J. B. Park (Assoc Prof, Bioengr), M. A. Ackley (Former Grad Stu) and P. E. Atkins (Former Undergrad Stu), to the meeting of the Southeastern Section of the American Physical Society Nov. 8 in Chapel Hill, N.C.

#### PLANNING STUDIES

Olgun Ersenkal (Assoc Prof) presented a paper, "A Land Use Fiscal Impact Model: Measuring Energy Related Impacts on Coastal Areas," to the symposium on "Assessing Energy Related Impacts on Coastal Areas," sponsored by the Center for Metropolitan Affairs of the College of Charleston Oct. 29-30 in Charleston.

#### PROFESSIONAL DEVELOPMENT

Claude S. Simpson Jr. (Instr, Ind Mngmnt and Asst Dir for Profes Dev) spoke on "Resources Available to the New Trainer" to the fall conference of the Carolina Society for Training and Development Oct. 23 in Columbia.

Claire O. Caskey (Assoc Prof, Eng) is the lecturer for a one-day workshop, "Effective Writing Skills for Secretaries," here Jan. 7, 1981.

Leonard Berger (Assoc Prof, Psych) is the lecturer for a two-day seminar, "Practical Interviewing Techniques," here Jan. 12-13, 1981.

J. Michael McDonald (Assoc Prof, Ind Mngmnt) is the lecturer for the programs, "Professional Development for Secretaries," here Jan. 13, 1981, and "Conflict Resolution," here Jan. 15-16, 1981.

#### SOCIOLOGY

Max E. White (Asst Prof, Anth) chaired a session, "Topics in Subsistence and Environment in the Southeastern United States," at the annual Southeastern Archaeological Conference in New Orleans, La., Nov. 12-15. Prof. White also presented a paper, "Early Man and Environment in the Southeastern United States."

#### ZOOLOGY

John Wourms (Assoc Prof) has accepted the

nomination to serve as advisory editor on the editorial board of the Journal for the Environmental Biology of Fishes, an

international quarterly published in the Hague, Netherlands, by W. V. Junk, B. V. Publishers.

## Calendar of Campus Events

### JANUARY 1981

- 3 -- Basketball: N.C. State (Men), Littlejohn Coliseum, 1 p.m.
- 4 -- Residence halls open at 10 a.m.
- 5-9 -- Workshop: "Dairy Herdsman Shortcourse." For dairy farm herdsman who want to learn more about the theory of dairy cattle nutrition, reproduction physiology and health practices. Sponsored by Dairy Science Department, P&AS Building, registration required, \$15 fee will be charged. Call 656-3231 for more information.
- 5-9 -- Short Course: "Brick Manufacturing." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 5-9 -- Art Exhibition: "Travel Display" with free brochures. Sponsored by University Union, Union Gallery, 8 a.m. - 5:30 p.m. Open to the public, no admission charge.
- 5-11 -- Videotape: "Looking for the Union Label." Sponsored by University Union, loggia, shown on request.
- 5-16 -- Short Course: "Phytoparasitic Nematode Identification and Life Habits." Sponsored by Plant Pathology and Physiology Department. Open to nematode consultants and other professional plant pathologists, registration fee will be charged, continuing education units will be awarded. Call 656-3450 for more information.
- 6 -- Registration for spring semester 1981.
- 6 -- Videotape: "Star Trek Bloopers." Sponsored by University Union, loggia, noon.
- 6 -- Midnight Movie: "Star Trek Film Festival." Sponsored by University Union, loggia, noon.
- 7 -- Ski Trip to Sugar Mountain. Sponsored by University Union, details and sign up at Union Information Desk, deadline Jan. 6. University I.D. required, \$24 charge.
- 7 -- Workshop: "Effective Writing Skills for Secretaries." Sponsored by Office of Professional Development, call 656-2200 for more information.



- 8 -- Classes begin on regular schedule.
- 8 -- Live Entertainment: Michael Ammar, magician. Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 8 -- Live Entertainment: The Spencer Group. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.
- 9-10 -- Basketball: Lady Tiger Invitational Tournament with Clemson, Appalachian State, Georgia and Alabama. Littlejohn Coliseum, 6 and 8 p.m. each night.
- 9 -- Dance: "New Wave Dance." Sponsored by University Union, YMCA Barn, 8 p.m. University I.D. and proof of age required. Tickets will be sold at Union Program Office beginning Jan. 7 from 8:30 a.m. - 5 p.m.
- 11-12 -- Auditions: "Where's Charley?" A musical comedy presented by the Clemson Players. Daniel Auditorium, 7:30 p.m. Open to all students; singers, dancers and musicians needed.
- 11 -- Free Flick: "Heroes." Sponsored by University Union, YMCA Theater, 8 p.m.
- 11-18 -- Art Exhibition: Student Graphic Art Display. Sponsored by University Union, Union Gallery, 8 a.m. - 5:30 p.m. weekdays, noon-5:30 weekends. Open to public, no admission charge.
- 12 -- Concert: Charlotte Symphony Orchestra, featuring French horn soloist Barry Tuckwell. Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season tickets, or individual tickets on sale at Gate 5 of the Coliseum.
- 12 -- Tournament: ACU-I Table Tennis Tournament. Sponsored by University Union, Union Gameroom, 7:30 p.m. Open to all students, 50¢ participation fee required. Winner will represent Clemson at regionals.
- 12-13 -- Workshop: "Practical Interviewing Techniques." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 12-18 -- Videotape: "Mr. Bill." Sponsored by University Union, loggia, shown on request.
- 13 -- Live Entertainment: Idols. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, no admission charge.
- 13-15 -- President's Honors Colloquium: "Distant Tremors: The Humanist as Seismograph." Jan. 13--John Opie, professor of history at Duquesne University, 3:30 p.m.; Claire Gaudiani, professor of French at Emory University, 8 p.m. Jan. 14--Michael Lofaro, assistant professor of English at the University of Tennessee, 3:30 p.m.; Akos Ostor, associate professor of cultural anthropology at Harvard University, 8 p.m.; Lee Hall Auditorium, open to the public, no admission charge.
- 13-2/9-- Art Exhibition: "Recent Paintings and Drawings" by Tommy Mew, professor



and chairman of the Berry College (Ga.) Art Department. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.

- 13 -- Workshop: "Professional Development for Secretaries." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 14 -- Basketball: N.C. State (Women), Littlejohn Coliseum, 5:45 p.m.
- 14 -- Basketball: The Citadel (Men), Littlejohn Coliseum, 8 p.m.
- 15 -- Lecture: Borden Putnam, senior vice president of American Cyanamid. Sponsored by Distinguished Chemical Industry Business Seminar Series, 11:15 a.m. in Earle Hall Auditorium, 4:30 p.m. in 131 Brackett Hall. Open to the public, no admission charge.
- 15 -- Live Entertainment: "Open Mike Night." Sponsored by University Union, The Gutter, 8 p.m. Anyone can perform, University I.D. required.
- 15 -- Live Entertainment: Nightcap. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.
- 15-16 -- Workshop: "Letter and Report Writing." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 16 -- Wrestling: Virginia, Jervy Gym, 7:30 p.m.
- 16-17 -- Live Entertainment: Ritchie Brothers Band. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 75¢ admission charge.
- 16, 23, 30 -- Series of Short Courses: "Metallurgy and Heat Treatment of Steel." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 17 -- Basketball: Maryland (Men), Littlejohn Coliseum, 1 p.m.
- 17 -- Basketball: Auburn (Women), Littlejohn Coliseum, 3 p.m.
- 18 -- Free Flick: "101 Dalmations." Sponsored by University Union, YMCA Theater, 8 p.m.
- 19 -- Basketball: East Tennessee State (Women), Littlejohn Coliseum, 5:45 p.m.
- 19 -- Basketball: Virginia (Men), Littlejohn Coliseum, 8 p.m.
- 19-23 -- Artist: Portraits and Profiles by Janet Wagner drawn on request. Sponsored by University Union, loggia, hours to be announced. Portraits - \$9, Profiles - \$6.
- 19-25 -- Videotape: "Bugs 'n Friends." Sponsored by University Union, loggia, shown on request.
- 20-21 -- Workshop: "Acceptance Sampling for Industry." Sponsored by Office of Professional Development, call 656-2200 for more information.

- 21 -- Basketball: Tennessee (Women), Littlejohn Coliseum, 5:45 p.m.
- 21 -- Basketball: Georgia Tech (Men), Littlejohn Coliseum, 8 p.m.
- 21 -- English Hour Lecture: Dr. Elisa K. Sparks. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, no admission charge.
- 21 -- Performing Artist Series: "An Evening with Gershwin." Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public, \$2 tickets available at the door.
- 21-22 -- Farm Credit Seminar. Sponsored by Agricultural Economics and Rural Sociology Department and Production Credit Association - Federal Land Bank Association. Clemson House, begins 1 p.m. Jan. 21 and ends noon Jan. 22. Invited guests only.
- 22 -- Live Entertainment: Robin and Linda Williams. Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 22 -- Movie: "The Song Remains the Same," a Led Zepplin movie. Sponsored by University Union, Edgar's, 9 p.m., University I.D. required.
- 24 -- Swimming: UNC (Men and Women), Fike Recreation Center, 2 p.m.
- 24-31 -- Artist: "Waterside" Color Photography by Phillip LeVee. Sponsored by University Union, loggia, 8:30 a.m. to 5:00 p.m. Mon. through Sat., noon to 5:00 Sundays.
- 25 -- Free Flick: "Andromeda Strain." Sponsored by University Union, YMCA Theater, 8 p.m.
- 26 -- Tournament: ACU-I 8-Ball Tournament. Sponsored by University Union, Union Gameroom, 7 p.m. Open to all students, 75¢ participation fee required. Winner will represent Clemson at regionals.
- 26-2/1 -- Videotapes: "Wild River Journey" and "NFL Football Follies." Sponsored by University Union, loggia, shown on request.
- 26-2/6 -- Room change period, submit application to Housing Office.
- 26 -- French Film: "Blue Country," a droll comedy about a lovable group of eccentrics in a remote valley of southeast France. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 27 -- Concert: Christopher Berg in a recital of music for classical guitar. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 27 -- Short Course: "Financial Aid" begins. Sponsored by University Union, sign up and details at Union Information Desk.
- 28 -- Basketball: Wake Forest (Women), Littlejohn Coliseum, 5:45 p.m.

- 28 -- Basketball: North Carolina (Men), Littlejohn Coliseum, 8 p.m.
- 28 -- Photography Session: "Victorian Photography." Come have a Victorian-type picture made of yourself. Sponsored by University Union, loggia, price to be announced.
- 28-30 -- Workshop: "Assertiveness Training for Managers." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 29 -- Live Entertainment: Flight. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.
- 29-31 -- Workshop: "Music and the Understanding of History." A series of demonstrations and discussions analyzing the relationship between musical practices and larger historical patterns in various cultures and periods. Sponsored by History Department, Hardin Hall, daytime and evening sessions. Open to the public, no admission charge. Call 656-3153 for more information.
- 30 -- Wrestling: Tennessee-Chattanooga, Jervy Gym, 7:30 p.m.
- 31 -- Swimming: N.C. State, Fike Recreation Center, women at noon, men at 3 p.m.

DUE TO THE HOLIDAY SCHEDULE, THERE  
WILL BE NO JANUARY 1, 1981, NEWSLETTER



### **PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL**

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

January 12, 1981  
Vol. 20 No. 10

CLEMSON UNIVERSITY  
SOUTH CAROLINA

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



JAN 12 1981

## COLLOQUIUM STARTS TOMORROW

The plans are all set and the arrangements all made, says Honors Council chairman Corinne Sawyer, for the President's Honors Colloquium, which begins tomorrow.

Four noted humanists, all currently research Fellows at the National Humanities Center in Research Triangle, N.C., will present papers, deliver class lectures and meet informally with students during the two-day affair.

The papers will be presented tomorrow and Wednesday, at 3:30 and 8 p.m., in Lee Hall Auditorium.

A public reception for the visiting scholars will be held in the Rudolph E. Lee Gallery following the Wednesday night session.

"Faculty and student response and cooperation have been great during the planning stages," Sawyer said.

"We anticipate a very successful colloquium," she said.

## COMPUTER CENTER INVITES VISITORS

Everything you've always wanted to know about computers you'll have a chance to ask about Thursday and Friday, Jan. 15-16, during the Computer Center Open House.

From 8:30 a.m. to 4:30 p.m. on each of those days, says academic computing support manager Richard Nelson, Computer Center staff members will be answering questions and demonstrating equipment for center visitors.

"This will be an informal drop-in open to the general public," Nelson says, "and there will be something for everyone -- from those who have never been exposed to computers to those who find an appealing

mystery in gadgets to experts in machinery."

He adds that visitors will have an opportunity to work and play with some of the machines on display.

A videotape explaining the Computer Center and how the center's powerful IBM machines work will be shown hourly. Plus, Nelson says, representatives from vendors such as Lanier, Radio Shack and Apple will be on hand exhibiting their products and answering questions.

Also, a specially equipped van provided by Digital Equipment Corp. will be outside the center and will contain a display of word processors from that company.

Nelson says he hopes all members of the University community will participate in the open house -- "especially if you've never been exposed to computers before."

## CASTRO NAMED ACTING HEAD IN MECHANICAL ENGINEERING

Walter E. Castro has been appointed acting head of the mechanical engineering department effective Jan. 5, acting dean of engineering Everett Thomas has announced.

Thomas said Eugene Bishop, who has served as head since August 1974, has requested a return to full-time teaching. A search has begun for a new head.

Castro first came to Clemson in 1959 as a graduate student. After earning his master's degree here, he went to West Virginia University for his Ph.D. He returned to the engineering faculty here in 1965.

As acting head Castro will occupy room 318 Riggs Hall (ext. 3470).

## ADVISERS NEEDED FOR STUDENT ORGANIZATIONS

If you're wondering how to pursue your special hobby or interest, Teresa Paschal, assistant dean of student life, has a suggestion for you.

The more than 200 student organizations on campus, Paschal says, offer faculty and staff members an excellent opportunity to serve as advisers for special interest groups ranging from scuba diving and photography clubs to service and honorary associations.

"The most important quality of a good adviser is that he or she have a sincere interest in students," says Paschal.

"The work an adviser does depends on what the individual is willing to do. You might want to limit yourself to behind-the-scenes work, or you might want to join right in with the students in their activities," she says.

Paschal says she is currently developing a list of faculty and staff members interested in becoming advisers.

"We certainly appreciate all the advisers we now have," she says, "but there are several organizations without advisers right now or that could use additional advisers.

"If I knew which faculty and staff members are willing to become advisers, I could help the right adviser get in touch with the right organization."

If you would like more information about serving as an adviser, you should contact Paschal at her office in Mell Hall (ext. 2153).

## CINEMA SERIES OPEN WITH SPACE ODYSSEY

The spring 1981 season of Five Directions Cinema opens this week with the showing of "2001: A Space Odyssey" Thursday and Friday, Jan. 15-16, at 7:30 p.m. in Lee Hall Auditorium.

Originated by five Liberal Arts faculty members, Five Directions is entering its third season with five single films and three double features scheduled.

"We're slowly expanding and are beginning to see more and more response to what we're doing," says English professor Bill Aarnes, one of the cinema program's originators and directors.

"We're looking for more variety in the films we screen, but at the same time we want to stay with films that are classics," he says.

In addition to "2001": films to be shown this season include, "The Last Detail," 7 p.m., Jan. 22; "Easy Rider," 9 p.m., Jan. 22; "The Discreet Charm of the Bourgeoisie," 7:30 p.m., Jan. 29; "The Day the Earth Stood Still," 7 p.m., Feb. 5; "Forbidden Planet," 9 p.m., Feb. 5; "Cries and Whispers," 7:30 p.m., Feb. 12; "Picnic at Hanging Rock," 7:30 p.m., Feb. 26; "McCabe and Mrs. Miller," 7:30 p.m., March 5; "The Twentieth Century," 7 p.m., March 12; and "Bring Up Baby," 9 p.m., March 12.

All shows will be in Lee Hall Auditorium.

Tickets for individual films are \$3 each and will be available at the door.

Series subscription rates are somewhat lower, Aarnes says.

Admission fees are necessary, he says, to cover the cost of renting the films shown.

If you would like further information about the Five Directions film series, you should contact Aarnes (ext. 3272), Paul Orlov (ext. 3272), Jerry Plecki (ext. 3421) or John Romeiser (ext. 3237).

## TURNING OFF LIGHTS NOT NEEDED HELPS SAVE ENERGY AND MONEY

The secret to a successful energy conservation program on campus, says energy conservation officer Jack Stanley, "is for each employee to take it upon himself to save energy."

"The most effective approach," Stanley says, "is not for the University to send people around to check every office, but for each of us who work at Clemson to try to save energy in our own offices."

One way individual employees can help save energy, Stanley says, is to turn off lights that aren't being used.



Not only will this save energy, it will also save money, he says.

"The cost of electrical energy has risen to a point where it is more economical to turn off fluorescent lights -- even for short periods of time -- than to try to prolong the service life of the tubes and ballasts by leaving the lights on," he says.

Requesting that everyone turn off lights not in use is only one small part of the University's overall energy conservation program. "The problem is one we work on constantly," Stanley says. "As we find more ways to conserve energy, we will be making further requests and suggestions to the University community."

#### NEWSLETTER BEGINS WEEKLY PUBLICATION

With this issue, the "Newsletter" becomes a weekly publication.

The change from semimonthly to weekly status is being made to provide for more timely and extensive coverage of campus events.

The first three issues in each month will include news and feature stories and calendars of events. Each calendar will

list events scheduled for the week beginning the following Monday.

Professional accomplishments of faculty and staff members will be announced in the fourth "Newsletter" of each month. That issue also will include news articles, a calendar and WEPR's program schedule for the coming month.

"Making the 'Newsletter' a weekly publication," says editor Jack McKenzie, "is another step in the process of developing a stronger internal news program.

"We will be making more changes along the way as a part of our continuing effort to make the program more effective."

The "Newsletter" will be distributed on Monday of each week.

Deadline for submission of general news and calendar items for inclusion in a particular issue of the "Newsletter" is Tuesday of the week before that issue will be distributed.

Such items should be submitted to the Internal Communications Editor, 103 Fike Recreation Center.

Academic news items and announcements will continue to be handled by the Assistant to the Provost, 209 Sikes Hall.

## Calendar of Campus Events

JANUARY 19-25, 1981

19 -- Basketball: East Tennessee (Women), Littlejohn Coliseum, 5:45 p.m.

19 -- Basketball: Virginia (Men), Littlejohn Coliseum, 8 p.m.

19-25 -- Videotape: "Bugs 'N Friends." Sponsored by University Union, loggia, shown on request.

19-23 -- Art Exhibition: "Portraits and Profiles" by Janet Wagner. Sponsored by University Union, Union Gallery, 9 a.m.-5 p.m. Open to the public, free.

19-2/1-- Art Exhibition: Drawings and paintings by Gordan Cullen, architect. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, free.



## CALENDAR OF CAMPUS EVENTS (Cont.)

- 20-21 -- Workshop: "Acceptance Sampling for Industry." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 21 -- Basketball: Tennessee (Women), Littlejohn Coliseum, 5:45 p.m.
- 21 -- Basketball: Georgia Tech (Men), Littlejohn Coliseum, 8 p.m.
- 21 -- English Hour Lecture: Dr. Elisa K. Sparks. Sponsored by English Department, 108 Strode Tower, 8-9 p.m. Open to the public, free.
- 21 -- Performing Artist Series: "An Evening with Gershwin." Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public, \$2 admission charge.
- 21-22 -- Farm Credit Seminar. Sponsored by Agricultural Economics and Rural Sociology Department and Production Credit Association - Federal Land Bank Association. Clemson House, begins 1 p.m. Jan. 21 and ends noon Jan. 22. Invited guests only.
- 22 -- Musical Entertainment: Robin and Linda Williams. Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required, 50¢ donation requested.
- 22 -- Movie: "The Song Remains the Same," a Led Zeppelin movie. Sponsored by University Union, Edgar's Nightclub, 9 p.m. University I.D. required.
- 22 -- Movies: "The Last Detail," starring Jack Nicholson, and "Easy Rider," starring Dennis Hopper, Peter Fonda and Jack Nicholson. Sponsored by Five Directions Cinema, Lee Hall Auditorium, 7 and 9 p.m. Open to the public, \$3 admission charge.
- 24 -- Swimming: UNC (Men and Women), Fike Recreation Center, 2 p.m. Open to the public, no admission charge.
- 25 -- Free Flick: "Andromeda Strain." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required.



January 19, 1981

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## HESTER TO COORDINATE ENERGY CENTER DEVELOPMENT

Mechanical engineer Charles Hester has been named by President Bill Atchley to coordinate campus energy programs and to spearhead development of a proposed South Carolina Energy Research Center here.

Hester and Ed Byars, executive assistant to the president, have been working with representatives of the Governor's Office, state agencies and legislators on the proposal.

The two have visited five colleges to date to brief faculty members on plans and solicit ideas, including ideas on incentives that will make doing energy research for the center an attractive proposition for individuals and their departments.

The proposal is still in its early stages, Hester said, adding that "developing a South Carolina energy center does not necessarily mean any facilities will be built right away.

"Bricks and mortar will come in time," he said, "but the first step is to establish a focal point for state energy research."

Hester said he is hopeful planning funds will be included by the legislature in next year's budget.

"Establishing a successful energy research and development program won't happen overnight," Hester said. "It will develop gradually in line with growth in resources and in harmony with the University's existing programs."

Atchley said the proposed S.C. Energy Research Center will eventually coordinate the energy research of all Clemson departments and institutes (such as the new Energy and Resource Development In-

stitute; see following story).

"The center will not be a 'Clemson-only' project, but it will be a 'Clemson-based' project, and we want to be sure Clemson people have a major role in its development," Atchley said.

## FRR, FOREST SERVICE, SARRMAC COOPERATE ON ENERGY INSTITUTE

An Energy and Resources Development Institute will be established within the College of Forest and Recreation Resources to look at the "humanistic" side of regional energy problems, Benton Box, the college's dean, has announced.

The institute will be established through a cooperative effort of Clemson, the U.S. Forest Service and SARRMAC (the Southern Appalachian Research/Resource Management Cooperative).

Box said plans for the institute were formalized in late 1980 and a director, Robert H. Becker, has been hired.

Becker, currently assistant director of the Water Resources Center at the University of Wisconsin at Madison, will begin work here Feb. 16.

Administration of the institute is supported by an initial grant of \$45,000 from the Forest Service, an agency of the U.S. Department of Agriculture. Another \$50,000 has been earmarked by the service for institute research projects, and the University will provide almost \$27,000 in indirect matching funds. The Forest Service has made a three-year commitment to the institute.

Box said the institute's main focus will be on the "humanistic" or "user" side of the energy coin. Concentrating on the six-state region of Virginia, North and South Carolina, Georgia, Florida and Tennessee, the institute will study pat-

terns of consumption, impacts on travel and tourism and impact on the "quality of life" of those who live in and visit the region.

"It's important to understand that the institute will not accommodate studies which fall under the heading of energy production," said Box.

"And when the proposed South Carolina Energy Research Center (see story above) is established, our institute will be incorporated into that structure," he said.

There will be a strong emphasis on conservation, he said, and the institute's mission will be carried out through the traditional tools of the land-grant university -- instruction, research, extension and continuing education. Its first major activity probably will be a conference on energy and its impact on tourism and recreation.

The institute will be housed under the dean of the College of Forest and Recreation Resources and guided by an advisory committee representing five academic disciplines and chaired by Box.

The five colleges represented on the committee will be Forest and Recreation Resources, Engineering, Agricultural Sciences, Liberal Arts, and Industrial Management and Textile Science.

#### SULLIVAN AWARD NOMINATIONS NOW BEING RECEIVED

Nominations from faculty and staff members for this year's non-student recipient of the Algernon Sydney Sullivan Award are now being taken by the Scholarships and Awards Committee.

Recipients of the Sullivan medallion, a valuable and artistic memorial established by the Southern Society of New York in honor of its first president, are selected in recognition of their influence for good, their excellence in maintaining high ideals of living, their spiritual qualities, and their generous and disinterested service to others.

The award will be presented during Honors and Awards Day, April 8.

Medallions are awarded annually by the University to two members of the graduating class and to one other person who has some interest in, association with or relation to Clemson, official or otherwise, of a nature as to make this form of recognition appropriate.

Non-student recipients of the award during the past ten years are Gaston Gage, 1971; Gertrude Bailey, 1972; Josephine Stribling Lazar, 1973; Everett Laitala, 1974; Kenneth N. Vickery, 1975; Lehman M. Bauknight Jr., 1976; Robert M. Jones, 1977; Robert C. Edwards, 1978; Earle E. Morris Jr., 1979; and Calista Causey, 1980.

Nominations for this year's award should be sent to Corinne Sawyer, 209 Sikes Hall, by Monday, Feb. 9.

#### NEW ALUMNI STAFF MEMBERS NAMED

The department of alumni relations and resources development has announced the appointment of two officers in its fund-raising programs.

Donald E. Fowler joined the alumni staff Jan. 5 as director of annual giving, and Robert E. Christenberry will become director of deferred giving and estate planning Jan. 30.

Fowler, formerly an executive with Milliken and Co., now is responsible for coordinating annual giving programs including the Alumni Loyalty Fund, the Faculty/Staff Fund, the University Fund, the Parents Fund and the Business Associates program.

In addition to having experience in development and management of programs at a number of Milliken locations in the two Carolinas, Fowler has been an active volunteer in annual giving programs of the University.

He served several terms as an officer and director of the Fort Hill Clemson Club during its organizational years and, during the 1960s, helped the Alumni Association establish its class-agent and field-contact programs.

"Clemson's reputation in alumni support for its educational programs is well known," he says. "Everywhere I have





**National Champs --** Clemson's nine-member twirling team, coached by Martha Carter, right, won top honors in national competition Jan. 10 at Cleveland, Tenn. Performing five minutes of original routine to the tune of "Instant Replay" and "Tiger Rag," the Clemson Tiger Twirlers took top honors in the "Drum Majorettes of America" competition, the only national championship for college lines. Kneeling from left are Susan Sams, Charleston; Cathy Rigg, Wise, Va.; Becky Dalton, Clemson's feature majorette and 1980 Majorette Queen of America, Asheville; and Dana Riddle, Greenwood. Standing are Lauri Whelpley, Atlanta; Charlotte Rowell, Greenwood; Paula Kroft, Atlanta; B. J. Rhoads, Sumter; Cathy Adams, Charleston; and Coach Carter.

traveled in my 7 years in the business community I have found a friendly envy in graduates of other institutions for the great loyalty and respect Clemson alumni and friends have for this university."

Fowler was one of 35 applicants for the annual giving directorship, a position funded by investment income from the Alumni Association Reserve Fund.

Christenberry succeeds retiring Horace Harby in the area of deferred giving and estate planning.

A 1948 Clemson graduate, Christenberry currently is director of planned giving at Furman University. Before going to Furman in 1974, he spent 12 years with Liberty Life and Connecticut General

Life insurance companies and 14 years with private industry, gaining extensive experience in data processing and production control with Milliken and Co.

He is a past president of the Clemson Lions Club and served as zone chairman of seven clubs for Lions International in 1971-73.

"I'm delighted to have the opportunity to join the resources development staff at Clemson," Christenberry says.

"Horace Harby leaves a solid foundation and a carefully documented audience of potential benefactors that will mean much to Clemson, and in turn to the young men and women who study here, far into the future."

Upon retirement, Harby will have served



eight years on the resources development staff. During his service, an unprecedented \$5 million in irrevocable deferred gifts has been received by the University.

He has initiated new programs in estate planning and charitable remainder trusts and has built a pooled income portfolio for Clemson that now has assets exceeding \$600,000.

#### FLU TAKING ITS TOLL ON CAMPUS

The first major wave of flu to hit the campus in several years is sending record numbers of students to Redfern Health Center for relief, says Redfern's director Dr. Judson Hair.

Hair said more than 90 percent of the students who went to the health center last Monday had the flu. In one three-day period, he said, between 700 and 800 sick students visited Redfern, and he added, "Just the tip of the iceberg has been seen."

He said the extremely high number of cases of the viral infection qualifies as Clemson's first flu epidemic since 1957. An epidemic, he explained, is defined as an instance when occurrence of an illness dramatically exceeds the normal rate expected.

The closeness and frequency of contact in classrooms, Hair said, is one reason the flu has spread so quickly and widely among students and faculty members.

He said persons with the flu should get plenty of rest and drink a lot of fluids. There are no new treatments available, he said, since development and approval of a vaccine to combat the current infection would take too long to have any impact this year.

He expects the flu will have run its course -- for the most part -- here in one to two weeks.

#### GRAPHICS SCHOLARSHIP ESTABLISHED

A new, \$1000, annual scholarship has been established for Clemson students who wish to pursue careers in graphic communications.

The scholarship, funded by the Printing Industries of the Carolinas Inc. (PICA), is open to any student attending, or planning to attend, the University. PICA executive secretary Bill Treadway was instrumental in setting up the scholarship.

"The scholarship shows a continuing interest in our program," says Page Crouch, director of graphic communications in the industrial education department. He added that this is the second scholarship given here by PICA.

The National Scholarship Trust Fund (NSTF) will administer the scholarship, and academic progress will be based on NSTF standards.

There are about 50 students in the graphic communications program now. Crouch hopes the new scholarship will help to make other students more aware of the program.

Further scholarship information is available from Sherrie Mercuri, Administrative Assistant, National Scholarship Trust Foundation, 4615 Forbes Ave., Pittsburgh, Pa. 15213.

#### ECONOMIC CONSIDERATIONS PROMPT SWITCHBOARD'S MIDNIGHT CLOSING

The decision in December to close the University switchboard and student locator from midnight to 7:30 a.m. seven days a week was based on economic considerations, says Zelda Rankin of the facilitating services staff.

Rankin says an average of only four WATS Line calls were being made through the switchboard during the early morning hours of each day. "We determined it wasn't economically feasible to hire an operator for the third shift," she says.

Callers dialing the main University number (ext. 3311) or the student locator number (ext. 2262) between midnight and 7:30 a.m. now hear a recorded message telling them to call the police station (ext. 2222) if there's an emergency.

Official long-distance calls during those hours now have to be dialed direct at prevailing Southern Bell rates.

## Calendar of Campus Events

January 26 - February 1, 1981

- 26-2/1 -- Art Exhibition: Recent paintings and drawings by Tommy Mew, professor and chairman of the Berry College (Ga.) Art Department. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, free.
- 26 -- French Film: "Blue Country," a droll comedy about a lovable group of eccentrics in a remote valley of Southeast France, directed by Jean-Charles Tacchella. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, free.
- 26 -- Tournament: ACU-I Eight-Ball Tournament. Sponsored by University Union, Union Gameroom, 7 p.m. Winner will represent Clemson at the regionals. University I.D. required, 75¢ charge.
- 26 -- Short Course: "Clogging" begins. Sponsored by University Union, details and sign up at Union Information Desk.
- 26-2/6 -- Room Change Period, submit application to Housing Office.
- 26-2/1 -- Videotapes: "Wild River Journey" and "NFL Football Follies." Sponsored by University Union, loggia, shown on request.
- 27 -- Concert: Christopher Berg in a recital of music for classical guitar. Sponsored by Chamber Music Series, Daniel Hall Auditorium, 8 p.m. Open to the public, free.
- 27 -- Speakers Bureau Presentation: Stuart Dimond, an award-winning energy and environment journalist, will present an incisive look at the Three Mile Island event and what it means for the future of the nuclear industry. Brackett Hall Auditorium, 7 p.m., open to the public, free.
- 27 -- Short Courses: "Financial Aid" and "Spinning and Dyeing Wool" begin. Sponsored by University Union, details and sign up at Union Information Desk.
- 28 -- Basketball: Wake Forest (Women), Littlejohn Coliseum, 5:45 p.m.
- 28 -- Basketball: North Carolina (Men), Littlejohn Coliseum, 8 p.m.
- 28 -- "Victorian Photography" Session. Have a Victorian-like photograph made of yourself. Sponsored by University Union, loggia, times and cost to be announced.
- 28-30 -- Workshop: "Assertiveness Training for Managers." Sponsored by Office of Professional Development, call 656-2200 for more information.

## CALENDAR OF CAMPUS EVENTS (Cont.)

- 29 -- Film: "The Discreet Charm of the Bourgeoisie," directed by Luis Bunuel, starring Fernando Rey and Delphine Seyrig. Sponsored by Five Directions Cinema, Lee Hall Auditorium, 7:30 p.m. Open to the public, \$3 admission charge.
- 29 -- Musical Entertainment: Flight. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.
- 29-31 -- Workshop: "Music and the Understanding of History." A series of discussion and demonstrations analyzing the relationship between musical practices and larger historical patterns in various cultures and periods. Sponsored by History Department, Hardin Hall. Daytime and evening sessions open to the public, free. Call 656-3153 for more information.
- 30 -- Wrestling: Tennessee-Chattanooga, Jervey Gym, 7:30 p.m.
- 31 -- Swimming: N.C. State, Fike Recreation Center, women at noon, men at 3 p.m.





### **PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL**

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.



## PRESIDENT'S COUNCIL READY TO BEGIN WORK

The President's Council will hold its first meeting Friday, Jan. 30, in the Alumni Center.

Membership on the advisory body, which was proposed by President Bill Atchley to assist him and Provost David Maxwell in matters of University governance, has been completed, and the Council is ready to begin its monthly meetings, according to Maxwell.

"There're still some committees to be developed," Maxwell said, "but the Council itself is basically all set."

"President Atchley intends this first meeting to be an organizing session. We will decide on a monthly meeting schedule and address other procedural details," Maxwell said.

The Council's constitution is available for review in the library and in Maxwell's office (207 Sikes).

Composed of 24 voting and six non-voting members, the Council will work through six commissions:

- Undergraduate Studies
- Graduate Studies and Research
- Faculty Affairs
- Student Affairs
- Public Programs
- Public Service

Various committees will report to each commission.

The Council will advise Atchley and Maxwell on formulation of University policy and will accept other responsibilities as assigned by Atchley.

Matters proposed by faculty members,

students, administrators, staff members, the Faculty Senate, student government, and the Council's own commissions and committees will be reviewed by the Council, which in turn will make recommendations to the president and provost.

Where appropriate, the Council will refer matters to University groups or individuals for consideration and recommendations.

Maxwell said the Council will, in effect, "coordinate the thoughts of the administration, the faculty and all other parts of the University."

"We see the Council," he said, "as a means of improving communication between the various elements of the University community."

Representing the Faculty Senate on the Council are the Senate's president, vice president and committee chairmen. The president chairs the Commission on Faculty Affairs, and the vice president serves as Council secretary.

Further, the Senate elects a faculty member holding a named professorship to a three-year, non-renewal term on the Council.

Seats also are reserved for four academic deans and two academic department heads appointed by the provost for three-year terms.

In filling these positions the provost is to take into account the colleges of the other faculty members on the Council and make his appointments so as to ensure representation of all colleges.

"Under no circumstances," the Council constitution states, "will a college be without representation for two consecutive years."

So that a staggered-term system will be

established, initial appointees will serve varying lengths of time.

The Graduate Student Association elects one member of the Council to a one-year term. Undergraduate students are represented by the president of the student body and the president of the Student Senate.

In addition to Atchley, who chairs the Council, and Maxwell, the voting members include:

-- Jerry Reel, assistant to the provost and chairman of the Commission on Undergraduate Studies.

-- Arnold Schwartz, dean of graduate studies and chairman of the Commission on Graduate Studies and Research.

-- Stassen Thompson, president of the Faculty Senate and chairman of the Commission on Faculty Affairs.

-- Walter Cox, vice president for student affairs and chairman of the Commission on Student Affairs.

-- Harry Durham, executive director for university relations and chairman of the Commission on Public Programs.

-- Luther Anderson, dean of the College of Agricultural Sciences and chairman of the Commission on Public Service.

-- Melvin Barnette, vice president for business and finance.

-- Everett Thomas, acting dean of the College of Engineering (three-year term).

-- Harlan McClure, dean of the College of Architecture (one-year term).

-- Gloria Tanner, acting dean of the College of Nursing (two-year term).

-- Henry Vogel, dean of the College of Sciences (two-year term).

-- Herbert Busching, head of the department of civil engineering (one-year term).

-- Al Newton, head of the department of industrial education (three-year term).

-- Ed Coulter, vice president of the Faculty Senate and associate professor of political science.

-- Virgil Quisenberry, chairman of the Senate Welfare Committee and associate professor of agronomy and soils.

-- Jim Kimbell, chairman of the Senate Admissions and Scholarships Committee and associate professor of accounting and finance.

-- Roger Rollin, chairman of the Senate Policy Committee and Lemon Professor of Literature.

-- Don Ham, chairman of the Senate Research Committee and associate professor of forestry.

-- Malcolm Skove, Alumni Professor of Physics (in the seat reserved for a faculty member holding a named professorship).

-- Oscar Lovelace, president of the student body.

-- Wes Kirkland, president of the Student Senate.

-- Robert Shaw, president of the Graduate Student Association.

Non-voting Council members are George Moore, executive director for alumni relations and resources development; Richard Meyer, acting director of the library; Ben Anderson, University legal counsel; Ed Byars, executive assistant to the president; and Joe McDevitt, executive officer in the President's Office and secretary of the Board of Trustees.

When a vice president for institutional advancement is hired, that person also will be a non-voting member of the Council.

#### TRUSTEES HIKE HOUSING FEES, APPROVE MINORITY AID PROGRAM AND NEW TENURE POLICY

The Board of Trustees Jan. 16 raised student housing fees, set up a new scholarship program for academically outstanding minority students and approved policies relating to tenure, academic governance and faculty grievances.

Student housing fees will go up from \$45 to \$60 a semester next year to meet





**DATA ACQUISITION--** An estimated 2000 people attended the Computer Center Open House last week, according to Richard Nelson, academic computing support manager. During the two-day affair, the Center's staff members demonstrated University equipment and answered visitors' questions. Also, representatives from vendors such as Lanier and Apple exhibited products.

legal requirements that such fees cover the actual cost of providing the service. (See schedule on page 5.)

The new merit scholarship program for gifted minority students will be funded through contributions to the annual giving fund of the Clemson Alumni Association. The project -- named the "Clemson University Alumni Scholarship Program" -- has been in the works since September and is not a response to the recent U.S. Department of Education report, President Bill Atchley said.

The non-resident fee structure will be waived for this program, as it is for other major scholarship programs, to aid recruiting of outstanding out-of-state students.

Vice President for Student Affairs Walter Cox told trustees that the former Alumni Merit Scholarship Program has been re-named Alumni Presidential Scholars to avoid confusion with the National Merit Scholarship program.

#### **New tenure policy**

The old tenure policy, which permitted tenure after four years of service, was described as being "simultaneously too lenient and too restrictive." The new policy provides a basic probationary period of seven years but also permits

credit for tenure-track service at other universities. Educational Policy Committee Chairman Kenneth Cribb of Spartanburg said the credit provision would make it easier to attract top scholars, researchers and academic administrators to Clemson.

The tenure policy, as well as those dealing with grievance procedures and academic governance, were formulated in conjunction with the Faculty Senate.

Vice President for Business and Finance Melvin Barnette briefed the board on the effect of the proposed 7 percent cut on Clemson's budget projections for next year. He said it will mean cutting 90 to 100 permanent, full-time positions, even though the number of state-funded positions has increased only by a little more than 1 percent here since 1974.

"The cut would put Clemson below the number of employees we had five years ago," he said.

Trustee and State Sen. James M. Waddell of Beaufort said that, in his view, the legislature had "eroded the management flexibility and taken away the decision-making responsibility" of state colleges and universities.

"The State has treated educational institutions as regular state agencies in some ways, but they are distinctive and



should be treated that way," he said.

Trustees also heard reports that Clemson is working out details of cooperative programs with other institutions of higher learning.

In an arrangement with Greenville Technical College, Clemson faculty would offer junior- and senior-level courses at Greenville TEC leading to Clemson degrees in five technical fields -- computer science, engineering technology and computer, mechanical and electrical engineering. Clemson also hopes to hold graduate courses on the Greenville TEC campus leading to the master's degree in civil engineering and systems engineering.

Committee chairman Cribb said the plan, still to be approved by the state Commission on Higher Education, would offer benefits to both institutions.

Another proposed cooperative effort involving Clemson, Winthrop College, Duke Power Co. and several TEC schools would offer academic training to budding nuclear plant operators.

A third cooperative program was announced this week. It involves the University of South Carolina and the state Department of Education and allows vocational educators to earn doctorates here, at USC or at tech centers. (See following story.)

**In other business, the board:**

-- ratified mail-ballot approval of an exception to the present patent policy. The exception permits University Patents Inc. to represent rights for five years to inventions and discoveries relating to molecular biology made by Ellis L. Kline and his associates. In a memorandum accompanying the mail ballot, board secretary Joe McDevitt told trustees that a revised patent policy would be presented for approval later. The patent policy is under study by the Faculty Senate.

-- ratified the appointments of Robert A. Waller as dean of the College of Liberal Arts and Ryan C. Amacher as dean of the College of Industrial Management and Textile Science.

-- approved borrowing \$5.4 million needed to complete Calhoun Courts, the new residence complex, until conditions in the bond market improve.

-- ratified mail-ballot approval to grant easements to Blue Ridge Electric Cooperative in Oconee County and to Six Mile Rural Community Water District in Pickens County.

-- welcomed Dr. John A. Timmerman of Columbia as new president of IPTAY. Timmerman replaces Charles Bussey, who resigned the office after accepting the post of athletic director at Louisiana Tech.

-- welcomed Rusty Donkle of Greenville, new president of the Alumni National Council. Donkle reported that grants from the Alumni Loyalty Fund would be announced this month and that Founder's Day will be expanded to a four-day program in 1981.

-- accepted as information a proposal presented by Student Body President Oscar Lovelace that IPTAY pledge money to help retire the stadium improvement bond debt and that, in the future, the "special student fee" (a portion of each student's University fee) currently earmarked for the stadium debt be applied toward construction costs of academic facilities.

#### **VOCATIONAL EDUCATORS CAN EARN DOCTORATES IN SOUTH CAROLINA**

Vocational and technical educators in South Carolina can earn the doctoral degree in-state beginning August 1981, according to Harold Landrith, dean of the College of Education.

Offered through a cooperative arrangement between Clemson, the University of South Carolina and the S.C. Department of Education, the Vocational and Technical Education Ed.D. program allows vocational educators to study for the degree at Clemson, any of the USC campuses, or at any of the state's technical and vocational education centers.

"In the past many of our best vocational educators have had to leave the state to do doctoral work in this field, or if

### Single Student Housing

|                                                    | <u>Current Rate</u> | <u>New Rate</u> | <u>Increase</u> |
|----------------------------------------------------|---------------------|-----------------|-----------------|
| Sections A - F      Johnstone Hall                 | \$305               | \$350           | \$45            |
| Annexes A & F                                      | \$315               | \$360           | \$45            |
| Donaldson, Bowen, Wannamaker,<br>Bradley, Norris   | \$315               | \$360           | \$45            |
| Benet, Young, Cope,<br>Geer, Sanders               | \$315               | \$360           | \$45            |
| Mauldin, Barnett, Smith,<br>Manning, Lever, Byrnes | \$335               | \$385           | \$50            |
| Clemson House (Rooms)                              | \$335               | \$390           | \$55            |
| Clemson House (Apts. w/kitchenettes)               | \$355               | \$415           | \$60            |
| Calhoun Courts (Apts.)                             | N/A                 | \$500           |                 |
| East Campus Apartments                             | N/A                 | \$475           |                 |
| Village Green Apartments                           | \$430               | \$475           | \$45            |

|                                        | <u>Current Rate</u> | <u>New Rate</u> | <u>Increase</u> |
|----------------------------------------|---------------------|-----------------|-----------------|
| Littlejohn Apartments (Interior Units) | \$ 79               | \$ 90           | \$11            |
| (Exterior Units)                       | \$ 83               | \$ 90           | \$ 7            |
| *Two Story Apts. (2 BR)                | \$155               | \$155           | None            |
| *Duplex (2 BR)                         | \$175               | \$175           | None            |
| *Duplex (3 BR)                         | \$200               | \$200           | None            |

\*Former faculty and staff housing--to be used as married student housing commencing July 1, 1981. Present rates which were increased significantly in 1980-81 will be sufficient to operate and maintain these units without further increase for 1981-82.

they remained in South Carolina they had to work on doctorates in other disciplines," says Landrith.

He says Clemson was chosen as the degree-granting institution because many of the University's disciplines, such as engineering, agriculture and industrial management, are directly applicable to vocational education.

He added that approval of the Vocational and Technical Education Ed.D. by the S.C. Commission on Higher Education is a major step toward gearing up the state's educational system for the demands of the 1980s and beyond.

"We're now aware that one of our greatest needs for future economic development is a labor force of highly trained technicians," says Landrith. "It takes 10 or 15 technicians to support each engineer or scientist we educate, and by upgrading the skills of our vocational educators we'll be better prepared to meet these demands."

Landrith said preliminary surveys of vocational educators in the state show a strong interest in the program.

#### SELF-STUDY REPORTS AVAILABLE FOR REVIEW

Copies of departmental and program self-study reports submitted under the first phase of the University Self-Study Program are available for review at the reserve desk of the library and, by appointment, in 114 Lowry Hall.

Ed Clark, chairman of the self-study steering committee, says submission of the reports marks the completion of the study's initial phase.

"Faculty and student response and cooperation during the departmental phase of the self-study have been outstanding," Clark says.

The next step in the self-study will be completed Feb. 15, with the submission of college-level reports.

#### SIGMA XI ACCEPTING AWARD NOMINATIONS

The Clemson chapter of Sigma XI, the

scientific research society, is now accepting nominations from faculty members for the 2nd annual Outstanding Research Scientist Award.

Mathematical scientist Ted Wallenius was the recipient of the first award last year.

According to chemistry professor Garth Spencer, chairman of the awards committee, the eligible faculty member is a "mature scientist" who has been a full-time faculty member at Clemson for two years. Membership in the society is not required.

Information on the award and the nomination format can be obtained from Spencer in the chemistry and geology department in Brackett Hall (ext. 3065).

The deadline for nominations is noon Monday, Feb. 9.

#### ACCOUNTING AND FINANCE

C. Don Wiggins (Assoc Prof) published an article, "A Case Study in Governmental Capital Budgeting," in the June 1980 issue of Governmental Finance.

#### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

Edward L. McLean (Prof) delivered a paper, "An Evaluation of a Method to Enumerate and Classify Students and Faculty in Four-Year Colleges and Universities," co-authored by Vickie J. Alexander (Grad Asst) and Stephen R. Chapman (Assoc Dean and Dir, Agric Instr), Oct. 15-17 at the annual meeting of the Southern Regional Demographic Group in Tallahassee, Fla.

Michael D. Hammig (Asst Prof) authored an article, "The Parity Concept as Related to Agriculture," in the USDA Sugar and Sweetener Report, 5(7), Sept. 1980, 51-59.

Mark S. Henry (Assoc Prof) presented a paper, "Univariate Cross Correlation Analysis: An Application to Economic Base Models," co-authored by S.E. Miller (Asst Prof), at the 27th annual meeting of the North American Regional Science Association, Nov. 15 in Milwaukee, Wis. Prof. Henry also presented a paper,



"Managing Nonmetropolitan Growth: The Public Sector," Oct. 29 at the Southern Regional Community Development Training Workshop, Metairie, La.

B.H. Robinson (Prof) has received a \$35,725 grant from the Science and Education Administration-Extension, USDA, to conduct a pilot study of agricultural credit availability in South Carolina. An Agricultural Financial Management Handbook will also be prepared under the grant.

E.D. Wynn (Assoc Prof) participated in the fall executive board meeting of the Community Development Society at Hershey, Pa., Nov. 21-23.

#### CHEMICAL ENGINEERING

R.W. Rice (Asst Prof) was faculty moderator of a student discussion, "Student Chapter Program Planning," and S.S. Melsheimer (Prof) co-chaired a session, "Solar Energy - Fundamentals and Applications," during the 73rd annual meeting of AIChE Nov. 16-20 in Chicago, Ill.

#### CHEMISTRY AND GEOLOGY

R.A. Abramovitch (Prof and Hd) and B.W. Cue Jr. (Grad Stu) have published a paper, "Ring Contraction of 2-Azidoquinoline and Quinoxaline 1-Oxides," in the Journal of Organic Chem., 45, (1980), 5316.

H.G. Spencer (Prof) and J.A. Barrie (Imperial College, London) published a paper, "Transient Sorption by Symmetrical Multilaminar Slabs in Well-Stirred Semiinfinite and Finite Baths," in J. Appl. Polym. Sci., 25, (1980), 2807.

R.J. Luppino (Grad Stu) and Prof. Spencer presented a paper, "Effects of Surfactants on the Hyperfiltration of Zirconium Oxide-Polyacrylate Membranes," at the Southeast-Southwest Regional Meeting of the American Chemical Society Dec. 10-12 in New Orleans, La.

John D. Petersen (Asst Prof) published "Photochemistry of Pentacyanocobaltate (III) Complexes Containing Aromatic Nitrogen Heterocyclic Ligands" in Inorg. Chem., 19, (1980), 2837.

Stephen F. Clark (Grad Stu) and Prof.

Petersen published "Stereochemistry and Quantum Yields for the Ligand Field Photolysis of Rhodium(III) Complexes" in Inorg. Chem., 19, (1980), 2917.

Prof. Petersen also presented a seminar, "Photochemistry of Transition Metal Complexes - Theory and Applications," Oct. 20 at Baptist College and Oct. 21 at College of Charleston.

A.R. Pinder (Calhoun Prof) acted as senior external examiner for a Ph.D. thesis, "Furanosquiterpenes from Eremophila rotundifolia," by E. Dimitriadis, University of Adelaide, Australia, in Dec.

J.W. Huffman (Prof) and Prof. Pinder have published a paper, "Comments on the Structure of Isointermedeol, a Sesquiterpene Reported from Cymbopogon flexuosus," in Phytochemistry, 19 (1980), 2468.

Prof. Pinder also gave a lecture, "The Biosynthesis of Organic Compounds," Dec. 4 at Bob Jones University.

Villard S. Griffin Jr. (Prof) presented a seminar, "The Classical Migmatites of Finland and the Possible Implications They Hold for the Southern Crystalline Appalachian Region," Dec. 10 at the Georgia Geological Survey Headquarters in Atlanta.

Prof. Abramovitch was in Brazil under sponsorship of the National Science Foundation Oct. 31-Nov. 10. While there he:

- visited the State University of Campinas where he discussed a possible joint research project with that university's Prof. Joseph Miller.

- delivered a lecture, "Ring Transformations of Heteroaromatic N-oxides," at the University of Campinas.

- delivered a lecture, "Rearrangements of Heteroaromatic N-oxides," at the Federal University of Rio de Janeiro.

From Brazil, Prof. Abramovitch went to England and Scotland where he:

- gave a plenary lecture, "Electron Deficient Reactive Intermediates," Dec. 15 in Loughborough at the 3rd East



Midlands Regional Meeting of the Perkins Division of the Royal Society of chemistry.

-- presented a plenary lecture, "Aryloxonium and Sulphenium Ions," Dec. 16 at the University of Salford during the International Symposium on Heterocyclic Chemistry, sponsored in association with the university's Heterocyclic group and the Perkins Division of the Royal Society of Chemistry and dedicated to retiring Prof. Hans Suschitzky.

-- spoke on "New Molecular Rearrangements in Heteroaromatic Chemistry" Dec. 18 at the University of Edinburgh during the 9th Scottish Regional Meeting of the Perkins Division of the Royal Society of Chemistry.

-- delivered a lecture, "Ring Transformation of Heteroaromatic N-oxides," Dec. 19 at Reckitt and Colman in Hull.

-- presented "New Molecular Rearrangements in Heteroaromatic Chemistry" Dec. 22 in Loughborough at Fisons Ltd.

#### CIVIL ENGINEERING

Russell H. Brown (Prof) and Alan Rhett Whitlock (Grad Stu) co-authored a paper, "Compressive Strength of Grouted Hollow Brick Prisms," presented by Prof. Brown Dec. 9 in Orlando, Fla., at the symposium of the American Society for Testing and Materials on Masonry: Materials, Properties and Performance. The paper will be published in the symposium Proceedings.

Soronadi Nnaji (Asst Prof) presented a paper, "Coherence as a Measure of Reservoir Linearity," Dec. 8-12 in San Francisco, Calif., at the 1980 American Geophysical Union's fall meeting.

#### ECONOMICS

Myles Wallace (Asst Prof) co-authored, "Money Income Causality and Exchange Rate Regimes: Evidence from Germany," accepted for publications by the Economic Forum, and "An Analysis of the Monetary Sector of the Saudi Arabian Economy," accepted for publication by Levant.

Rex L. Cottle (Assoc Prof and Hd) gave a

speech, "The Economic Ills of Government," Dec. 2 to the Pendleton Lions Club. Prof. Cottle also presented "Inflation in 1981" Jan. 6 to the Administrative Management Society (Anderson Chapter).

Dudley W. Blair (Assoc Prof) has been elected to a three-year term Dec. 1980-83, on the Board of Directors of the S.C. Council on Economic Education.

Russell Shannon (Prof) published "Iatrogenic Government" in the December 1980 issue of The Freeman.

Richard McKenzie (Prof) published "The Case for Plant Closures," in Policy Review (December 1980) and, "Caution: Consumer Protection May be Hazardous to Your Health," in Reason magazine (December 1980). (A reprint of a monograph published earlier.)

Prof. McKenzie also published The New World of Economics: Explorations into Human Behavior, 3rd edition (January 1981), with Gordon Tullock at VPI. The Spanish version of the second English edition was published in December 1980, and a German edition is scheduled for publication in early 1981.

Prof. McKenzie has been selected to give regularly scheduled commentaries on economic topics for a 250-station syndicated radio network by the International Center for Economic Policy Studies. In December he was interviewed for an hour on a talk-show on KDKA in Pittsburgh.

Bruce Yandle (Prof) delivered the Hightower Lecture "The Evolution of Property Rights: Rent-Seeking and Air Pollution Entitlements," Nov. 24 to the School of Business Administration at Emory University. Prof. Yandle participated as a member of the Regulation Research Advisory Committee to the American Enterprise Institute at its meeting Dec. 9 in Washington.

#### ELEMENTARY AND SECONDARY EDUCATION

R. Ken Peden (Prof) presented two papers, "Environmental Health Curriculum Design for Public Schools" and "Emergency Care Skills and Safety Procedures: A Focus on the School Programs K-12,"

and served as chairman of the Safety and Emergency Care Committee at the annual American School Health Association Convention Oct. 15-18 in Dallas, Texas.

### ENGINEERING GRAPHICS

Dan Ryan (Assoc Prof) has received notification that his fourth textbook, Computer-aided Kinetics in Machine Design, has been published by Marcel Dekker Inc. in New York City.

Prof. Ryan was the invited lecturer Dec. 9-11 for a computer-aided design seminar held at Kansas State University.

### ENGLISH

M. Thomas Inge (Prof & Hd) published an essay, "The Continuing Relevance of I'll Take My Stand," in Mississippi Quarterly, 33, (Fall 1980), 445-460.

Fred Shilstone (Assoc Prof) read "Byron, Dante, and Don Juan's Descent to English Society" Nov. 6-8 at the Comparative Literature Section of the South Atlantic Modern Language Association in Atlanta, Ga.

Edward P. Willey (Assoc Prof) published four poems, "Ecliptic Echoes," "Emasculation Fantasy," "He's Gone, I Think," and "Distinction," in Re: Artes Liberales, 6, (Spring 1980), 41-44.

Richard J. Calhoun (Alumni Prof) chaired the program "Walker Percy: An Appreciation" Dec. 27-30 at the Modern Language Association convention in Houston, Texas. He was also recently elected to the executive council of the Society for the Study of Southern Literature.

Sterling Eisiminger (Assoc Prof) read a selection of his verse and an essay Jan. 13 to the Anderson Writers Guild at Anderson College.

Jere Lee Hodgkin (Asst Prof, Drama) was an adjudicator Nov. 22 for the Southeastern Theatre Festival Auditions at the Alabama Theatre Festival and on Dec. 11 for the American College Theatre Festival at the University of South Carolina.

John Idol (Assoc Prof) and Prof. Eisiminger published "Operas Based on Hawthorne: An Update" in The Nathaniel

Hawthorne Society Newsletter, 6, (Fall 1980), 7.

Prof. Idol and three English H102 students--Glenn Marsh, Steve Simmons, and Valerie Speegle--published "Street Names in Pendleton" in Names in South Carolina, 27, (Winter 1980), 26. Prof. Idol and his English 890 students published "Pickens County Stream Names: A Selective List" in the same issue, pp. 12-13. He also reviewed Richard Beale Davis's A Colonial Southern Bookshelf and William Scheick's The Half-Blood in The South Carolina Review, 13, (Fall 1980), 102-04.

Roger Rollin (Lemon Prof) read "John Donne Indoors: A Phenomenological Approach to 17th-Century Poetry" Dec. 28 at the annual meeting of the Modern Language Association in Houston, Texas.

Prof. Calhoun authored "Richard Wilbur" in Dictionary of Literary Biography, Volume Five: American Poets Since World War II, edited by Donald J. Greiner, (Detroit: Gale Research Company, 1980), pp. 378-90.

Carol Johnston (Vstg Asst Prof) read "Single-editor Editions from Manuscript: The Journal of Theodore Parker" Nov. 6-8 in the textual and Bibliographical Studies Section at SAMLA.

Myra L. Kibler (Vstg Asst Prof) published "Female Identity in the Young Adult Novel" in The Alan Review (Fall 1980), pp. 25, 32.

Ronald F. Lunsford (Asst Prof) and Charles W. Bridges (New Mexico State) published "Response to James Kinney, 'Classifying Heuristics,'" in College Composition and Communication, 31 (Oct. 1980), 333-34.

Prof. Rollin delivered "Popular Culture in the Academy" Oct. 30 at the Honors Day Convocation of Newberry College.

Malcolm Usrey (Assoc Prof) directed the 1980 Children's Literature Symposium, which featured Nina Bawden (British author for adults and children) and Peter Spier (Dutch illustrator and winner of the Caldecott Award). Six other members of the English Department took part in the program: Mark Charney

(Instr), Deuel Griffin (Asst Prof), Prof. Hodgin, Harriet Holman (Prof Emeritus), Prof. Kibler and Raymond Sawyer (Asst Prof).

Prof. Inge was a participant Nov. 17-19 in the American Humor Symposium at Goucher College in Baltimore, Md., co-sponsored by Bryn Mawr College. Also he was a guest lecturer Nov. 20 at Goucher.

An abridged version of Joan Bobbitt's (Asst Prof) article "Unnatural Order in the Poetry of James Dickey," originally published in Concerning Poetry, Vol. 11, No. 1, (Spring 1978), appears in Contemporary Literary Criticism, Vol. 15, edited by Sharon R. Gunton and Laurie Lanzen Harris, (Gale Publishing Company, 1980), pp. 173-4.

William Koon (Assoc Prof) read "Tammy Wynette and the Objective Correlative" Nov. 8 in Atlanta for the Popular Culture Section of The South Atlantic Modern Language Association. He reviewed The Collected Stories of Eudora Welty in the Nov. 1 issue of Library Journal

#### EXTENSION HOME ECONOMICS

Janice R. McRee (Asst Prof) Nov. 16-21 served as the state representative on a National EFNEP Program Review Team of four federal and one state representative studying the program being administered at the University of Tennessee.

#### HISTORY

Elizabeth Carney (Asst Prof) gave a paper, "Aeropus, Lyncestian King of Macedonia," Dec. 27 at the annual meeting of the American Philological Association in New Orleans, La.

#### LANGUAGES

Leonard T. Perry (Asst Prof, Span & Ital) was elected president of The South Carolina Chapter of the American Association of Teachers of Spanish and Portuguese at the South Central Organization of Language Teachers meeting Oct. 2-3 in Charleston.

Prof. Perry was coordinator for Penin-

sulas Literature and organized the 19th century Spanish section for 1980 Mountain-Interstate Foreign Language Conference here Oct. 23-25.

Margit M. Sinka (Assoc Prof, Ger) gave a Goethe Institute of Atlanta workshop, "Conversational Activities for the Classroom," Dec. 13 at Tennessee Technical University in Cookeville for the annual meeting of the Tennessee Association of German Teachers.

Prof. Sinka presented a paper, "The Flight Motif in Martin Walser's Ein Fliehendes Pferd," Nov. 23 in Boston at the annual meeting of The American Association of German Teachers.

Gaston Fernandez (Prof, Span) chaired the Spanish II Section Nov. 8 at the 50th annual meeting of South Atlantic Modern Language Association in Atlanta, Ga.

Russell Willingham (Instr, Fr) read a paper, "Teaching Students to Read French - A Successful Approach," at the 30th Annual meeting of the Mountain Interstate Foreign Language Conference.

#### MATHEMATICAL SCIENCES

Robert F. Ling (Prof) attended the International Congress on Applied Systems Research and Cybernetics Dec. 12-16 in Acapulco, Mexico. He was speaker, organizer and chairman of a special session, "On the User Interface of Computing Software."

Douglas Shier (Assoc Prof) has published a paper, "Arc Tolerances in Shortest Path and Network Flow Problems," written jointly with C. Witzgall of the National Bureau of Standards, in Networks, Vol. 10 (1980).

#### MECHANICAL ENGINEERING

James G. Goree (Prof, ME & EM) attended the 17th annual meeting of the Society of Engineering Science Dec. 15-17 at Georgia Tech where he:

-- organized and chaired a technical session on composite materials.

-- presented "Mathematical Modeling of Damage in Unidirectional Composites"



co-authored by him and L.R. Dharani (Grad Stu).

-- presented "A New Look at Analyses of Free-Edge Stresses in Composite Laminates" co-authored by him, I.S. Ragu (Res Prof, George Washington University) and J.D. Whitcomb (Engr, NASA-Langley Research Lab). (This paper has also been published as NASA Technical Paper No. 1751; December 1980.)

Nelson R. Bauld Jr. (Prof) presented a seminar, "Experimental and Numerical Buckling Behavior of Fiber-Reinforced Panels Under Uniform End Displacement," at The Wright Aeronautical Laboratories at Wright-Patterson Air Force Base in Dayton, Ohio. The contract under which this work was completed has been extended for two more years to bring the funded period to 7 years.

#### NURSING

Sharon W. Thompson (Asst Prof) presented lectures on "Childhood Illnesses" and "Childhood Accidents" Jan. 8 and 9 to two classes of child development at Westside High School in Anderson.

Ann Rawlings (Vstg Instr) presented a workshop, "Acute Stroke: Avenues of Intervention," Dec. 11 at the Greenville County Health Department.

#### PHYSICS AND ASTRONOMY

John R. Ray (Prof) attended the Georgia Workshop in Mathematical Physics Dec. 9-10 in Athens, Ga., where he presented a paper, "Invariants for Nonlinear Equations of Motion," and also chaired the session on "Algebraic and Group Representations of Differential Equations."

#### PLANT PATHOLOGY AND PHYSIOLOGY

N.D. Camper (Prof), Kathleen Stralka (Grad Stu) and H.D. Skipper (Prof, Agron & Soils) have published a paper, "Aerobic and Anaerobic Degradation of Profluralin and Trifluralin," in J. Environ. Sci. Health, B15(5), (1980), 457-473.

Prof. Camper presented a summary of research on degradation of herbicides at the S-146 Regional Research Committee

Meeting Oct. 6-8 in Charleston. Title of Regional Project: Methodology, Dissipation and Fate of Pesticide Residues in Agricultural Ecosystems.

#### POLITICAL SCIENCE

Michael Morris (Asst Prof) delivered a paper, "Military Aspects of the Exclusive Economic Zone," at the Paem in Maribus X Conference Oct. 27-31 in Vienna, Austria.

Prof. Morris made presentations about his research project on Third World navies Nov. 4 at the Italian Institute of International Relations in Rome, Italy, and Nov. 11 at Stiftung Wissenschaft und Politik in Munich, Germany.

Prof. Morris published a monograph, "Expansion of Latin American Navies," by the Institute of Latin American Studies in Stockholm, Sweden.

#### PROFESSIONAL DEVELOPMENT

E. Earl Burch (Prof, IM & Math Sci) and Evans A. LaRoche (Prof, IM) are instructors for a two-day course, "Acceptance Sampling for Industry," here Jan. 20-21.

John J. Porter (Prof, Text) is chairman for a conference, "Textile Wastewater Treatment and Air Pollution Control," Jan. 21-23 at Hilton Head Island.

Robert W. Rouse (Assoc Prof, Acct) is chairman for a two-day seminar, "Cost Calculation and Control of Textile Operations," here Feb. 17-18.

John H. Marvin (Prof, Text) is chairman for a two-day conference, "Current Technology in Drawing Through Spinning: Ring and Open End," here Feb. 24-25.

Kathryn S. Collins (Admin Asst) presented a one-day public seminar, "Publication Design and Development," Dec. 1 sponsored by Duke University.

Prof. Porter is co-chairman for a two-day conference, "Energy Conservation in the Textile Industry," Feb. 10-11 at Peachtree Plaza in Atlanta.

J. Michael McDonald (Assoc Prof, IM) is lecturer for a two-day seminar, "Effec-



tive Time Management," here Feb. 12-13.

## RECREATION AND PARK ADMINISTRATION

Ann James (Assoc Prof) Nov. 28 addressed the Recreation Council for the Disabled in Nova Scotia on "Motivational Techniques" and presented the paper "Learned Helplessness and Therapeutic Recreation

Service for Depressed Clients" to faculty and graduate students at Dalhousie University, Halifax, Nova Scotia.

G. Wesley Burnett (Asst Prof) has reviewed "Wilderness, Economics and Policy" by Lloyd C. Irland, (D.H. Heath and Company, 1979) in Geographical Review 77 (December, 1980), 490-491.

## Calendar of Campus Events

February 2-8, 1981

- 1-9 -- Art Exhibition: Recent paintings and drawings by Tommy Mew, professor and chairman of the Berry College (Ga.) Art Department. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 1 -- Free Flick: "Heaven Can Wait." Sponsored by University Union, YMCA Theater, 8 p.m.
- 2-8 -- Videotape: "Doonesbury." Sponsored by University Union, loggia, shown on request.
- 2 -- Tournament: Table Soccer. Sponsored by University Union, Union Game Room, 7:30 p.m. University I.D. required, 50¢ charge.
- 2 -- Short Courses: "Tae Kwon Do," "Sign Language" and "Quiltmaking" begin. Sponsored by University Union, details and sign up at Union Information Desk.
- 3 -- Short Courses: "Yoga," "Dungeons & Dragons," "Multi-Media," "First Aid" and "Shagging" begin. Sponsored by University Union, details and sign up at Union Information Desk.
- 4 -- Short Course: "Hang Gliding" begins. Sponsored by University Union, details and sign up at Union Information Desk.
- 4 -- French Play. Presented by Languages Department students, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 5 -- Movies: "The Day the Earth Stood Still," directed by Robert Wise, starring Michael Rennie, Patricia Neal and Sam Jaffe; and "Forbidden Planet," directed by Fred Wilcox, starring Walter Pidgeon and Ann Francis. Sponsored by Five Directions Cinema, Lee Hall Auditorium, 7 and 9 p.m. Open to the public, \$3 admission charge.
- 5 -- Seminar: Joseph Monteleone, vice president of Stauffer Chemical Co. presents a Distinguished Chemical Industry Business Seminar. Sponsored by Chemistry and Geology Department, 11:15 a.m. in Earle Hall Auditorium, 4:30 p.m. in 131 Brackett Hall. Open to the public, no admission charge.

## CALENDAR OF CAMPUS EVENTS (Cont.)

- 5 -- Poetry readings by faculty and graduate students. Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required.
- 5 -- Short Course: "Hammock-Making" begins. Sponsored by University Union, details and sign up at Union Information Desk.
- 6-7 -- Musical Entertainment: The Idols. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, \$1 admission charge.
- 7 -- Winter Backpacking. Sponsored by University Union, details and sign up at Union Information Desk.
- 7 -- Swimming: University of South Carolina (Men and Women), Fike Recreation Center, 2 p.m.
- 7 -- Basketball: University of South Carolina (Women), Littlejohn Coliseum, 7:30 p.m.
- 8 -- Basketball: University of South Carolina (Men), Littlejohn Coliseum, 8 p.m.
- 8 -- Free Flick: "Jane Pittman." Sponsored by University Union, YMCA Theater, 8 p.m.

# WEPR

## WEEKDAY SCHEDULE

| Time        | Monday                            | Tuesday                       | Wednesday                         | Thursday                        | Friday                 |
|-------------|-----------------------------------|-------------------------------|-----------------------------------|---------------------------------|------------------------|
| 6-8         | Morning Edition*                  |                               |                                   |                                 |                        |
| 8-8:30      | Radio Reader                      |                               |                                   |                                 |                        |
| 8:30-4      | Instructional Radio               |                               |                                   |                                 |                        |
| 4-4:30      | Old and New<br>Worlds of<br>Words | Conversations<br>with Alice   | High School<br>Quiz               | Apple a<br>Day                  | Leaders &<br>Trailers* |
| 4:30-5      | Drive Time*                       |                               |                                   |                                 | Potpourri              |
| 5-6:30      | All Things Considered             |                               |                                   |                                 |                        |
| 6:30-7      | Options in Education              |                               | Horizons                          | BBC Science                     | Communique             |
| 7-7:30      | Essence<br>of Jazz**              | Jazz<br>Revisited             | Ballads,<br>Bards &<br>Bagpipes** | Music of<br>the Black<br>Church | Radio<br>Smithsonian   |
| 7:30-8      |                                   | Jazzspot*                     |                                   |                                 | Latin Beat*            |
| 8-9         | Grand Piano                       | International<br>Concert Hall | NY Phil-<br>harmonic              | Los Angeles<br>Philharmonic     | Little Night<br>Music* |
| 9-10        |                                   |                               |                                   |                                 |                        |
| 10-10:30    | Netherlands<br>Concert<br>Hall    | Music From<br>Oberlin         | The Attentive<br>Ear              | Majors and<br>Minors*           | Performance*           |
| 10:30-11    |                                   |                               |                                   |                                 |                        |
| 11-11:30    |                                   | Melody Time                   |                                   |                                 |                        |
| 11:30-12:30 | 1st Hearing                       | In Recital                    | BBC Promenade                     | Vocal Scene                     | America in<br>Concert  |

## WEEKEND SCHEDULE

| Time     | Saturday               | Sunday                    |
|----------|------------------------|---------------------------|
| 6-11     | Mosaics                | Daybreak                  |
| 11-12    | Vivat Rex              |                           |
| 12-12:30 | NPR Journal            |                           |
| 12:30-1  | Fitzgerald             | NPR Recital Hall          |
| 1-1:30   |                        |                           |
| 1:30-2   |                        |                           |
| 2-2:30   | I Hear America*        | Plots & Prologues*        |
| 2:30-3   |                        |                           |
| 3-5      | Folk Festival USA      | Chicago Symphony          |
| 5-6      | All Things Considered  | Remember When             |
| 6-7      |                        |                           |
| 7-8      | Prairie Home Companion | Indianapolis Symphony     |
| 8-9:30   | Jazz Alive             | Stars and Stuff           |
| 9:30-10  |                        |                           |
| 10-11    | Stardust Ballroom      | Majors and Minors Encores |
| 11-12:30 |                        |                           |

\* Produced by the University station of WEPR

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February 3, 1981  
Vol. 20 No. 13

CLERMONT UNIVERSITY LIBRARY  
SOUTH CLEMSON  
FEB. 5 1981  
**NEWSLETTER**  
INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



### NEW ANNUITY PLAN AVAILABLE FOR UNIVERSITY EMPLOYEES

A new, voluntary, deferred compensation plan is available for employees.

Called the S.C. Deferred Compensation Program, the state-sponsored plan is the result of legislation passed in 1977 setting up an agency to develop an annuity program for all public employees.

The program is one of 36 tax sheltered plans available to University personnel, says Ron Herrin, director of payrolls and employee benefit programs here.

Herrin says the state historically has not sponsored deferred compensation programs for all its employees because of legal restrictions not applicable to employees of public educational institutions.

"While this new program gives employees here another option to consider in the area of annuity programs," Herrin says, "it is the first state-sponsored program of this type."

Basically, the plan works like this:

If you choose to participate, each pay-day a portion of your income is set aside, or deferred, in a special account which earns interest. You don't have to pay taxes right then on the amount you defer.

You are taxed on the proceeds of your account when you start receiving them --when you most likely will be in a lower tax bracket.

Conditions under which proceeds from your account can be received are:

- 1) Retirement; 2) Termination; 3) Disability; 4) Severe Financial Hardship; 5) Death (in which case proceeds go to your beneficiary).

"This plan is designed to help employees

make long-range financial plans and is not intended to be a short-term savings account," Herrin says.

"Each annuity plan available to us at Clemson has certain conditions and advantages attached to it," he says. "An employee interested in this kind of program should take a look at the overall picture and then decide which program is best for him or her."

Meetings to explain the S.C. Deferred Compensation Program to employees in the various colleges and divisions are currently being held.

You should try to attend the meeting scheduled for your unit, but you may attend any of the others.

For information on meeting times and places, check with your supervisor or call Herrin's office (ext. 2000).

### POOLE SCHOLARSHIP AWARDED

Thomas M. Duncan, a senior biochemistry major from Greenville, has been awarded an R.F. Poole scholarship.

Supported by the Alumni Association through the Alumni Loyalty Fund, Poole scholarships are given annually in honor of the University's 7th president, the late Robert F. Poole, who served from 1940 to 1958.

Duncan, who will graduate in May and plans to do graduate-level research, was one of about 100 students who participated in a U.S. Department of Energy student research program last summer at Oak Ridge National Laboratory.

He is the son of Mr. and Mrs. Norvin C. Duncan.

### SCHOLARSHIP POINT CLARIFIED

Scholarship programs for which the

non-resident tuition and fee structure is waived are athletic grants-in-aid, R.F. Poole scholarships and Clemson University Alumni Scholarships (the new program for gifted minority students approved by the Board of Trustees Jan. 13).

These are the only scholarship programs for which the out-of-state fee structure is waived.

The Jan. 26 Newsletter report on the Board's approval of the new program did not make this point clear.

#### COMPUTER DEMONSTRATION BEGINS TODAY

The University's Word Processing Committee has arranged for a demonstration of distributed processing equipment by Four-Phase Systems, Inc.

Four-Phase manufactures and markets minicomputers which support a minimum of eight terminals. Software, says the manufacturer, can support word processing, COBOL processing, data entry and central enquiry, all from a single terminal.

According to Bob Wiggins, chairman of the committee, anyone in the University community interested in word processing is invited to drop by and see the Four-Phase system. The equipment will be set up in the Computer Center during regular daytime work hours today through Thursday.

To set up specific times for demonstrations, contact Wiggins or Richard Nelson in the Computer Center (ext. 3466).

#### SOCIAL CRITICISM IN FILM EXAMINED DURING SERIES

The use of feature films in defining and criticizing social life and/or social policy is the theme for a film series beginning Feb. 11 under sponsorship of the English and sociology departments.

Support for the series is being provided by the S.C. Committee for the Humanities, an agent of the National Endowment for the Humanities.

Assistant sociology professor Susan Brown, who along with visiting assistant

English professor Jerry Plecki is directing the series, says eight films covering a wide range of topics and illustrating a variety of film techniques used in social commentary will be shown.

"All of the films," she says, "have something to say about the world and how it is. We're trying to present some form of social comment with the series."

An informal discussion will follow each presentation.

Open to the public at no charge, all showings will begin at 7:30 p.m. in Lee Hall Auditorium.

The series will include: "Real Life," Feb. 11; "Hester Street," Feb. 18; "Lover Come Back," Feb. 25; "President's Analyst," March 4; "Battle of Algiers," March 11; "If," March 25; "Girl Friends," April 1; "The Molly McGuires," April 15.

Further information is available from Brown (ext. 3238) and Plecki (ext. 3421).

#### NEWSLETTER MOVES TO TUESDAY

Starting with this issue, the Newsletter will be distributed on Tuesday, instead of Monday, of each week.

All deadlines for information and items for inclusion in the Newsletter remain as earlier announced.

The one-day shift in the distribution schedule is being made for printing and production reasons and is another step in the department of information and public services' continuing effort to improve the University's internal communications program.

#### UNIVERSITY TO HAVE COLUMBIA OFFICE SPACE

The University will rent office space in Columbia, beginning in mid-February, for use by administrators when they are in the capital on matters related to Clemson's public service, regulatory and academic programs.

President Bill Atchley says Clemson's extensive involvement in programs with

statewide impact necessitates having meeting and working space in the geographic and governmental center of the state.

"Clemson is not just one agency," Atchley says. "In addition to the University, we're responsible for six major public service agencies and programs, including the Cooperative Extension Service and the Agricultural Experiment Station.

"The services we provide to the state -- services, I might add, which are assigned to us by law -- affect the lives of people in every one of the 46 counties. We inspect the meat people eat, the seed they plant, the fertilizer they use, the pesticide they buy.

"With such a wide range of responsibility, every year we are called upon repeatedly by legislators, other agencies, and South Carolinians at large to provide expertise and information on matters that come up.

"We simply cannot continue to fulfill all these obligations adequately without having a place to work in Columbia. We have to be available when we are needed."

Atchley says in the past when he and other University officials have gone to the capital they have had to "impose on other people by borrowing their offices."

"Until now we haven't had a suitable place to work," he says.

He says he intends to make the space available to other state college presidents as well, by inviting them to use the office when they are in Columbia.

Additionally, Atchley says, assistant to the president and legislative liaison Wade Green, who works out of Columbia, will make use of the space.

The office will be in the new Rembert C. Dennis Building in the state government complex near the Capitol.

## Calendar of Campus Events

February 9-15, 1981

9-10 -- Lectures: "Liberty and the Limits of Law." Sponsored by College of Liberal Arts, Daniel Auditorium, open to the public, no admission charge. Feb. 9, 3:30 p.m., Michael Novak, "Religion, Liberty and the Limits of Law"; 7 p.m., Thomas Szasz, "The Jurist as Healer." Feb. 10, 4 p.m., Alan Dershowitz, "The Couch, the Cage, and the Cat O'Nine Tails"; 7:30 p.m., Matthew Perry, "The Courts and Civil Rights: Issues for the Eighties."

10 -- Basketball: Old Dominion (Women), Littlejohn Coliseum, 8 p.m.

10 -- Japanese Film: "Ukiyo-E Printing: Art for the People." Sponsored by Department of Architectural Studies, Lee Hall Auditorium, 3:45-4:45 p.m. Open to the public, no admission charge.

10 -- Short Course: "Beginning Bridge" begins. Sponsored by University Union, details and sign up at Union Information Desk.



## CALENDAR OF CAMPUS EVENTS (Cont.)

- 11 -- French Play. Presented by Languages Department students, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 11 -- Short Course: "Hang Gliding" begins. Sponsored by University Union, details and sign up at Union Information Desk.
- 11 -- Film: "Real Life," directed by Albert Brooks about an opportunist who sets out to make a filmed record of a typical U.S. family. Sponsored by departments of English and sociology, Lee Hall Auditorium, 7:30 p.m. Open to the public, no admission charge.
- 11 -- English Hour Lecture: The best graduate paper in English will be read. Sponsored by English Department, 108 Strode Tower, 8 p.m. Open to the public, no admission charge.
- 11 -- Speakers Bureau Presentation: George Plimpton, author, journalist, sportsman and adventurer. Brackett Hall Auditorium, 7 p.m. Open to the public, no admission charge.
- 12 -- Performing Artist Series: Carl Ratcliff Dance Theatre presents "Classical" Modern Dance. Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public, \$2 admission charge.
- 12 -- Movie: "Cries and Whispers," directed by Ingmar Bergman, starring Harriet Andersson and Liv Ullman. Sponsored by Five Directions Cinema, Lee Hall Auditorium, 7:30 p.m. Open to the public, \$3 admission charge.
- 12 -- Valentine Card Making. Sponsored by University Union, loggia, noon-2 p.m.
- 12 -- Concert: Jeff Lorber Fusion. Sponsored by University Union, Clemson House Ballroom, 8 p.m. Advance tickets only at \$7.50.
- 12-14 -- Basketball: Women's ACC Tournament, Littlejohn Coliseum, times to be announced.
- 13 -- Wrestling: Western Carolina and Appalachian State, Jervey Gym, 6 and 7:30 p.m.
- 13 -- Midnight Movie: "The Sting." Sponsored by University Union, Palmetto Room of Union, midnight. University I.D. required, 50¢ admission charge.
- 13-14 -- Musical Entertainment: Dave Condeluci. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, \$1 admission charge.
- 14 -- Clemson vs. Virginia basketball game shown on big screen TV. Sponsored by University Union, Edgar's, 1 p.m.
- 14-15 -- Overnight Trip to Gatlinburg. Sponsored by University Union, details and sign up at Union Information Desk.
- 15 -- Free Flick: "Catch 22." Sponsored by University Union, YMCA Theater, 8 p.m.



February 10, 1981  
Vol. 20 No. 14

CLEMSON UNIVERSITY LIBRARY  
SOUTH CAROLINA

FEB 11 1981

## GOOD NEWS REPORTED ABOUT UNITED WAY

Contributions to the University's 1980 United Way drive soared by 46 percent over the previous year, bringing the grand total received to \$16,370.

This was the good news from Nick Lomax, campus chairman, when campaign volunteers gathered Jan. 30 for a final report session.

He said the actual dollar increase came to \$5,179. Also, the number of participants increased significantly.

In other business to wrap up the campaign, the steering committee elected Buford E. "Butch" Trent to serve as campus chairman for 1981. Trent is director of the University Union.

This was only the second year that the University has conducted an organized, in-house campaign, and Lomax believes every faculty and staff member who made a gift deserves a big share of the credit for this very successful effort.

Lomax said the bulk of the gifts will go to support United Way programs in Pickens (\$11,495), Oconee (\$3,059) and Anderson (\$1,629) counties as earmarked by employee donors living in these counties. Four other counties served by University employees were also designated to receive contributions and pledges totaling \$187.

"The steering committee has done a tremendous job," Lomax said. "And the sizable increase in giving this year indicates good things ahead for the campus solicitation."

Steering committee members and the

colleges or areas which they represented are: R. Kenneth Peden, College of Education; John Clemens, College of Forest and Recreation Resources; Rameth Owens, College of Liberal Arts; Marcella Jordan, College of Industrial Management and Textile Science; Pat Padgett, College of Nursing; Nelle Bridges, College of Agricultural Sciences; Jerry Whitmire, College of Engineering.

Also, Cleve Ann Senn, College of Sciences; Edgar Killingsworth, College of Architecture; Tom Harbin, business and finance; Wanda Hunt, Robert M. Cooper Library; Jeff McNeill, Alumni Center; Butch Trent, student affairs; and John L. Allen, information and public services and communications center.

## PLANNING CONSULTANTS RETURN TO LIBRARY MONDAY AND TUESDAY

Consultants working on a comprehensive master plan for the campus will be in the main-floor study room of the library Monday and Tuesday of next week (Feb. 16 and 17) receiving comments and opinions from students, faculty and staff.

The consultants, who made a similar visit to campus last December, will be available to talk with members of the University community from 9 a.m. to 1 p.m. and from 2 to 6 p.m. each day, says assistant campus master planner Mark Wright.

Wright says the first phase of the master planning project -- identifying existing conditions and programs -- has been completed and that the consultants will have copies of the resulting report on hand for review by anyone who's interested.

"The next step in the process is issue

mapping," says Wright. "The consultants will be trying to identify people's perceptions of the physical environment of the campus.

"We'd really like to get as many people involved in this project as possible," he says.

The purpose of a comprehensive master plan, Wright says, "is to outline a framework for physical growth that will enable us to follow a logical order in meeting the changing needs of the University in the future."

Jim Boniface and Jim Hambright of Lockwood Greene Inc. and Truitt Rabun of Edward Pinckney Associates are consultants working on the master plan.

#### ACCOUNTING CLUB OFFERS FREE INCOME TAX CLINIC

Yes, Virginia, there is an Uncle Sam, and he is expecting to receive your 1980 income tax report by April 15.

So if you need a little help figuring up your deductions and figuring out IRS' instructions, make a note to visit the student Accounting Club's free tax clinic.

Members of the Accounting Club will be in the Clemson House lounge (to your right as you enter the front door) 3-5 p.m. Monday-Thursday and 6-8 p.m. Monday and Wednesday now through March 5 to help prepare individuals' tax returns.

No appointments are necessary. Just bundle up your tax forms (1040s, 1040-A's, etc.), your income statements (W-2s, 1099s, etc.), and any other relevant documents and information and head on over.

Two club members will be available at a time to assist the folks who drop by.

The clinic is open to the public -- that includes University faculty and staff members.

"The reasons we're doing this," says

club adviser Lou Ramsay, associate professor of accounting and finance, "are so the students can help the community in the area of tax preparation and to give students a chance to apply classroom material to real-life situations."

#### WEPR PRESENTS EXCERPTS FROM HONORS COLLOQUIUM

If you missed the President's Honors Colloquium Jan. 13-14, or if you'd like to hear parts of it again, tune in to WEPR (FM 90) as you drive home from work each day this week.

During "Drive Time," the educational radio station's 4:30-5 p.m. news show Monday-Thursday, excerpts from colloquium speeches and interviews with the four humanists who participated are being aired.

On Friday, the entire 4:30-5 p.m. slot will be devoted to the address by Claire Gaudiani, professor of French at Emory University.

Gaudiani, history professor John Opie of Duquesne University, assistant English professor Michael Lofaro of the University of Tennessee, and associate anthropology professor Akos Ostor of Harvard University spoke on "Distant Tremors: The Humanist as Seismograph" during the colloquium.

Each of the four scholars currently is a Fellow at the National Humanities Center in Research Triangle, N.C.

#### COPELAND RETIRES AFTER 27 YEARS

Jim Copeland will retire this Thursday (Feb. 12) after 27 years with the Cooperative Extension Service and the Agricultural Experiment Station.

Currently Extension Service associate director, Copeland is a native of Carroll County, Ga.

He received his bachelor's degree in dairy science from the University of Georgia and earned a master's degree in





**EMPLOYEES HONORED --** Ben Keasler (left) of the farms department and Thomas Ligon (right) of the Physical Plant were honored at a luncheon with Governor Richard Riley Dec. 15, 1980, for their long and dedicated service as state employees. Keasler has been with Clemson for 50 years, and Ligon has worked here 42 years.

agricultural economics here.

He holds a doctoral degree in administration and communications from the University of Wisconsin.

He worked for five years with Pet Dairy Products Co. before joining the University.

#### **EMPLOYEES HONORED BY GOVERNOR FOR YEARS OF STATE SERVICE**

Ben Keasler and Thomas Ligon can recall the days when there was no Lake Hartwell.

They can tell you about a time when coal kept things running around here.

They remember when you were lucky to have a tractor to plow with.

They can also tell you what it's like to have lunch with the governor and to receive a plaque from him in recognition

of long and dedicated service to Clemson and the state.

Keasler has worked for Clemson for 50 years. Ligon has worked here for 42.

On Dec. 15, 1980, they and nine other state employees were honored at a luncheon with Governor Richard Riley for their years of contributions to South Carolina.

Both men began their careers here "totin' water" to their fathers during the day. Keasler's father worked on the Experiment Station's farms, while Ligon's dad worked in the animal husbandry department.

Keasler was ten years old back then. Today he is an agricultural aid in the farms department. He holds the distinction of being Clemson's "oldest" employee, having been employed here longer than any other person.



Ligon was officially hired at the age of 16 to drive a coal truck. He is now a heavy equipment operator and crew chief for the Physical Plant.

The two agree that working here has changed a lot over the years.

"We used to work from seven to seven, and we'd work year round," says Keasler. "Sometimes we'd pick through ice to get rocks out of a field."

Now that he has a tractor -- instead of a mule -- to drive, Keasler says, he can turn 40 acres of land in a day. He used to be able to turn only three acres a day, he says.

Ligon says modern equipment has made his job easier too. "The new machines like the bulldozers and cranes save a whole lot of hard work. All we used to have was shovels, but all that hard work is cut out now."

Thinking on that point for a moment, Ligon wonders aloud how he and his co-workers were able to get all their work done back before they had heavy machinery to use.

Then he smiles and adds, "We were a lot younger then too."

#### **PRESIDENT'S COUNCIL ADOPTS MONTHLY MEETING SCHEDULE**

The President's Council met for the first time Jan. 30 and adopted the last Friday of each month as its regular meeting day.

Established by President Bill Atchley to advise him and Provost David Maxwell on matters of University governance, the Council includes 24 voting and six non-voting representatives of the faculty, administration and student body.

Six commissions -- Undergraduate Studies, Graduate Studies and Research, Faculty Affairs, Student Affairs, Public Programs and Public Service -- will work under the Council. Various committees will report to each commission.

At the Council's organizational session, Atchley outlined the group's role and said Council meetings will be times when "ideas flow freely and are examined and challenged constantly."

"Through this Council every member of the University community should have an opportunity to speak out on any issue. Therefore, one of your [the members'] jobs should be to seek out opinions and comments from the people or the areas which you represent," he said.

The Council's purpose, he said, "is to give the best possible advice to me. I will evaluate that advice and use it for the best interests of the total University."

"Working together, we can begin to establish an exciting new openness and a new spirit of cooperation at Clemson," he said.

#### **CLOWER HIGHLIGHTS GREENVILLE AG. EXPO**

Comedy, information and the color of agriculture await those attending S.C. Ag. Expo '81 Feb. 11-13 at Textile Hall in Greenville.

In addition to over 160 displays, exhibits and demonstrations for homeowners and those involved in all phases of farming, Expo has scheduled a performance by country comedian Jerry Clower Friday, Feb. 13, at 7 p.m.

Expo hours are 11 a.m. to 10 p.m. each day. There is no admission charge, and parking is free.

During a dozen special presentations, Extension Service specialists will give programs on topics like vegetable gardening, lawn care, irrigation, the economics of home heating with wood, dollar-saving tips for the homemaker and information on forestry as an investment.

Ag. Expo '81 is the first program of this kind in South Carolina in several years, and the promoter plans to make it an annual event held at different sites

in the state.

#### RESEARCH PROPOSALS SOLICITED FROM BIOMEDICAL INVESTIGATORS

Applications for support of biomedical or behavioral, health related, pilot research projects are being accepted from University faculty members now through March 15.

The University expects to receive \$30,000 in Biomedical Research Support Grant (BRSG) funding this spring from the National Institute of Health (NIH) and has established a committee to determine how the BRSG funds will be allocated.

Consistent with University health related research interests and NIH policies, the committee has decided that the funds will be used to support pilot biomedical or behavioral research by young investigators.

A young investigator is defined as one generally not more than five years past the Ph.D. Pilot research explores new ideas to test their validity and to provide preliminary findings necessary to support research project grant applications.

Proposals for interdisciplinary projects are encouraged.

Applications for BRSG funding should be submitted to the Office of University Research (E-102 Martin Hall) before March 15. Applicants must use Public Health Service 398 forms and format.

Proposals should be completed to facilitate peer review, and budgets should contain only items requested from BRSG.

Peer review will include conformance to application requirements, quality of the research proposed and an evaluation of the potential of the project for subsequent sponsored research.

The committee expects that a subsequent proposal, seeking sponsored support and based on the proposed or similar work, will be forthcoming if funds are allocated.

The BRSG funds will be awarded not later than April 15 on the basis of the competitive peer review. The committee anticipates making five or six awards.

Anonymous peer review comments will be available to investigators of unfunded applications.

The committee will accept applications from young investigators, faculty who joined the University after August 15, 1980, and mature investigators reorienting the directions of their research.

Committee members are: John Hatcher, associate professor of textiles; Donald Henricks, professor of food science and biochemistry; Joon Park, associate professor of bioengineering materials; Laurretta Park, associate professor of psychology; Gary Powell, professor of biochemistry; Gloria Tanner, professor and acting dean of nursing; and Robert Henningson, associate director of University research, chairman.

Questions concerning the BRSG, the application process, and/or applicant eligibility should be directed to the Office of University Research (ext. 2375).

#### VARIETY OF PROPOSALS FUNDED BY FACULTY RESEARCH COMMITTEE

The Faculty Research Committee has announced funding of 32 proposals for a total of \$36,425.

Funding for the proposals was decided upon at the committee's meeting Nov. 17, 1980.

The proposals are listed on pages 6 and 7.

## PROPOSALS FUNDED BY THE FACULTY RESEARCH COMMITTEE AT ITS MEETING NOV.17, 1980

| <u>INVESTIGATOR</u>                                | <u>PROPOSAL</u>                                                                                                                      | <u>AMOUNT</u> |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Mark A. McKnew<br>(Industrial Management)          | Developing a Model to Estimate Commuter<br>Airline Passenger Demand in South Carolina                                                | \$1,000       |
| Kilian Dill<br>(Chemistry)                         | The Mode of Binding of Various Metal Ions<br>to $\alpha$ -D-N-Acetylneuraminic Acid                                                  | 1,200         |
| Denis Paz<br>(History)                             | Concerns of the British Political Nation<br>in 1851                                                                                  | 940           |
| Dennis W. Bennett<br>(Chemistry)                   | The Formation of Cyclopropane in Olefin<br>Metathesis Catalysis                                                                      | 1,200         |
| George W. Koon<br>(English)                        | Hank Williams: A Bio-bibliography in<br>Popular Culture (Greenwood Press)                                                            | 430           |
| Donald M. McKale<br>(History)                      | Travel to Germany and England for Archival<br>Research on Subject Titled "Female Nazi<br>War Criminals: Women in Hitler's New Order" | 900           |
| Donna M. Gibson<br>(Biochemistry)                  | The Possible Involvement of Lectins in<br>Plant Resistance to Infection                                                              | 900           |
| Gary Mabbott<br>(Chemistry)                        | Electrochemical Measurements                                                                                                         | 2,000         |
| Gayle P. Noblet<br>(Chemistry)                     | Potential Pathogenicity of <u>Naegleria</u><br><u>fowleri</u> in South Carolina                                                      | 3,400         |
| Gayland B. Witherspoon<br>(Architectural Studies)  | Investigation of Architectural Daylighting<br>Techniques                                                                             | 800           |
| Ernest G. Baxa, Jr.<br>(Elect. and Computer Engr.) | Non-Gaussian Signal Processing in Multi-<br>Source Backgrounds                                                                       | 1,090         |
| Carolyn S. Brown<br>(Biochemistry)                 | The Mechanism of Action of Serotonin on<br>B <sub>16</sub> Melanoma Cells                                                            | 1,300         |
| Richard D. Warner<br>(Geology)                     | Mineralogy, Petrology and Chemistry of<br>Western South Carolina Dolerite Dikes                                                      | 1,200         |
| M. Thomas Inge<br>(English)                        | The Aesthetic and Humanistic Values of<br>American Comic Art                                                                         | 985           |
| Martin A. Davis<br>(Architectural Studies)         | Determine Feasibility of an Aquatic Eco-<br>system on the Performance of a Partially<br>Autonomous Solar Greenhouse-Residence        | 1,200         |
| John G. Hoffman<br>(History)                       | Brancepeth, a Rural English Parish in the<br>Seventeenth Century                                                                     | 750           |
| Max E. White<br>(Sociology)                        | Archaeological Survey of Pickens and<br>Oconee Counties                                                                              | 600           |



PROPOSALS FUNDED BY THE FACULTY RESEARCH COMMITTEE AT ITS MEETING NOV. 17, 1980  
CONTINUED

| <u>INVESTIGATOR</u>                            | <u>PROPOSAL</u>                                                                                                          | <u>AMOUNT</u> |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------|
| Robert A. Fjeld<br>(Envir. Sys. Engr.)         | Monitoring Environmental Radioactivity<br>Using Mecuric Iodide                                                           | 2,000         |
| Brian J. Mihalik<br>(Recreation & Park Admin.) | An Examination of Corporate Philanthropy<br>in South Carolina                                                            | 230           |
| David C. Speckhard<br>(Biochemistry)           | The Function of RNA During Virus Infection                                                                               | 1,500         |
| James A. Miller<br>(History)                   | Geographical Analysis of Tamgrout,<br>Morocco: Religion and Region                                                       | 1,250         |
| John C. Morse<br>(Entomology, Fish & Wldlf)    | Systematics and Historical Biogeography of<br>Triplectidinae (Trichoptera: Leptoceridae)                                 | 2,330         |
| Phillip J. Flower<br>(Astronomy)               | The Stellar Content of Globular Star<br>Cluster Cores                                                                    | 1,100         |
| Patrick J. Gill<br>(Psychology)                | Adjustment to Post-Eligibility Life by<br>Former Student-Athletes                                                        | 500           |
| Larry G. Peppers<br>(Sociology)                | Coping with Perinatal Death                                                                                              | 1,000         |
| John R. Wagner<br>(Geology)                    | Mineralogic Analysis of Weathering<br>Characteristics in Terrace Deposits of the<br>New River North of Radford, Virginia | 390           |
| R. Aneja<br>(Food Science)                     | Recognition and Binding of $\pi$ -Bonds in Lipids<br>by Enzymes                                                          | 2,000         |
| A.P. Wheeler<br>(Zoology)                      | A New Hypothesis for the Role of Soluble<br>Matrix from Molluscan Shell                                                  | 1,100         |
| John P. Wourms<br>(Zoology)                    | Long Term Sperm Storage and Superfoetation<br>in Vivaparous Fishes                                                       | 1,700         |
| James M. Colacino<br>(Zoology)                 | The Functional Significance of Hemoglobin<br>in Very Small Animals                                                       | 830           |
| Rosemary H. Lowe<br>(Psychology)               | The Relationship of Math Ability, Math<br>Anxiety, and Gender to Curriculum<br>Selection by Clemson Students             | 400           |
| Cynthia C. Chernecky<br>(Nursing)              | Feelings of Depression, Anxiety and<br>Hostility in the Individual with Cancer<br>and Their Significant Other            | 200           |
|                                                | Total Granted                                                                                                            | \$36,425      |



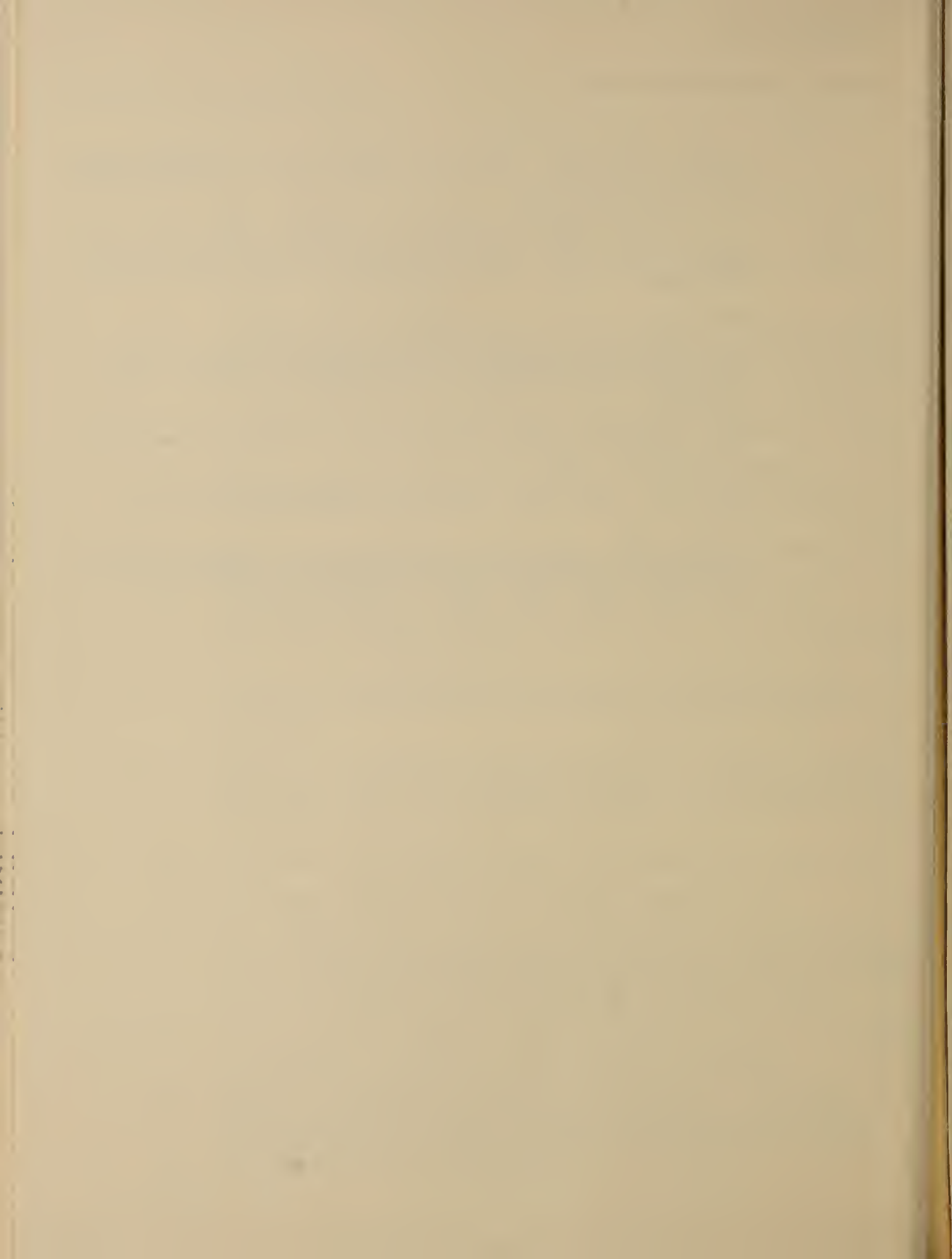
## Calendar of Campus Events

### February 16-22

- 16 -- Short Course: "Horsemanship" begins. Sponsored by University Union, sign up and details at Union Information Desk.
- 16-22 -- Videotape: "The Rolling Stones." Sponsored by University Union, loggia, shown on request.
- 16-3/16-- Art Exhibition: Recent sculpture by Edward Mayer, associate professor of art at Ohio University. Mayer uses an unusual approach of stacking four-foot lengths of lath wood into self-enclosed structures, with the wood relying solely on its weight to hold it in place. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 16 -- Lecture: Sculptor Edward Mayer speaks on his work. Sponsored by College of Architecture, Lee Hall, 8 p.m. Open to the public, no admission charge.
- 16-17 -- Workshop: "Pre-Supervisory Training." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 17 -- Japanese Film Series: "Nara, Japan." Sponsored by Department of Architectural Studies, Lee Hall Auditorium, 3:45 - 4:45 p.m. Open to the public, no admission charge.
- 17-18 -- Workshop: "Cost Calculation and Control of Textile Operations." Sponsored by Office of Professional Development, call 656-2200 for information.
- 17,21 -- Workshop: "Cardiopulmonary Resuscitation (CPR)." Sponsored by Nursing Continuing Education, conducted by Instructor Gail Kiser-Brown. Open to the public, pre-registration required. Call 656-3079 for more information.
- 18 -- Basketball: Francis Marion (Women), Littlejohn Coliseum, 5:45 p.m.
- 18 -- Basketball: Wake Forest (Men), Littlejohn Coliseum, 8 p.m.
- 18 -- Film: "Hester Street," the story of problems of a Russian immigrant couple in their assimilation to American life and its effects on their marriage. Sponsored by departments of English and sociology, Lee Hall Auditorium, 7:30 p.m. Open to the public, no admission charge.
- 18-19 -- Workshop: "Problem Solving and Decision Making." Sponsored by Office of Professional Development, call 656-2200 for information.
- 19 -- Workshop: "Techniques of Neurological Assessment." Sponsored by Nursing Continuing Education, conducted by Instructor Ann Rawlings. Enrollment limited to registered nurses, pre-registration required. Call 656-3079 for more information.

## CALENDAR OF CAMPUS EVENTS (Cont.)

- 19 -- Concert: "Say It with Music--An Irving Berlin Celebration" by Atlantis Productions. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, tickets on sale at Gate 5 of the Coliseum.
- 20-21 -- Musical Entertainment: Avant Garde. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, \$1 admission charge.
- 21 -- Wrestling: N.C. State, Littlejohn Coliseum, 7:30 p.m.
- 21 -- Ice skating and shopping trip to Eastland Mall in Charlotte, N.C. Sponsored by University Union, details and sign up at Union Information Desk.
- 21 -- UNC basketball game shown on big screen TV. Sponsored by University Union, Edgar's, 1 p.m.
- 22 -- Free Flick: "Paper Moon." Sponsored by University Union, YMCA Theater, 8 p.m.
- 22-3/1-- Art Exhibition: Photo display by Paul Hellman. Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Monday - Saturday, noon - 5 p.m. Sunday. Open to the public, no admission charge.











FEB 17 1981

January 17, 1981  
No. 15

## AFFIRMATIVE ACTION OFFICE CHANGES NAME TO OFFICE OF HUMAN RESOURCES

The Office for Affirmative Action has changed its name to Office of Human Resources.

The new name more accurately reflects the nature and scope of the office's responsibilities, says director Frank Mauldin.

"Although the Affirmative Action Program is an important part of our function," Mauldin says, "we are not limited to that responsibility."

Further, he says, the name change emphasizes the office's move from a passive to an active stance in the area of human relations.

"A passive stance is one where a complaint or law or investigation calls for an institutional response to 'show good faith in compliance.' That is, the original impetus is from an external agent.

"The 'human resources' terminology is a method of demonstrating an internal locus of control for the development of human resources. The internal motivation comes from a positive instigation of programs to assure fairness," Mauldin says.

He says he hopes employees and managers will look to the Office of Human Resources for help rather than thinking of the office as an enforcer or auditor.

"Enforcing and auditing tend to scare off areas of assistance where upgrading can reduce problems," he says.

"Additionally," he says, "an affirmative action office alone might encourage the

perception of an office for complaints rather than as a place to demonstrate commitment to improvement."

Mauldin says his office is designed to work in conjunction with -- and not in competition with -- other University programs.

"We serve the University by assuring that positive steps are being taken to keep existing programs effective and in compliance with the law," he says.

The name change does not affect the office's location (E-103 Martin Hall), telephone number (ext. 3181) or staffing.

## FINANCIAL AID OFFICE MOVING, HAS NEW ASSISTANT DIRECTOR

The student financial aid office will move next week into G01 Sikes Hall.

The move, says financial aid director Marvin Carmichael, will enable him and his staff to serve students more efficiently and effectively.

"Our new location will give us more room to work, and we'll be able to meet with students on a more personal, one-to-one basis," he says. "We'll have a larger waiting area too, and things in general won't be quite as congested as they are here."

The financial aid office currently is in 106 Sikes Hall.

The office will be closed Wednesday and Thursday of next week (Feb. 25-26) -- while equipment, files and furnishings are moved -- and will open for business Friday, Feb. 27, in its new location.

The move will not change the financial aid telephone number (ext. 2280).

#### **Mandicott Named Assistant Director**

Carmichael also has announced that Frank Mandicott, 26, of Hicksville, N.Y., has joined the financial aid staff as assistant director.

A 1980 graduate of State University of New York at Geneseo, Mandicott has a bachelor's degree in communications.

While at SUNY-Geneseo, he worked as an assistant for public relations/communications for the Geneseo Volunteer Center and as a program coordinator for the Geneseo Alumni Affairs Office.

He also has worked as a claims adjuster for Kemper Insurance Co., as a migrant worker field counselor, and as owner and operator of a landscaping business.

Mandicott has been active in Scouting since 1972 and is a registered assistant scoutmaster.

Additionally, he is on the board of directors of the Pickens County Meals on Wheels Program.

#### **AG SALES ANNOUNCES NEW TREAT AND RETURN OF BLUE CHEESE**

About two hundred students signed a petition recently, wanting a change.

The petition was delivered to James Martin, head of the dairy science department, by students who said they just can't handle the large 16-ounce milkshakes served at the ag sales center.

According to Martin, the petitioners said the shakes are too large to drink at one sitting and too expensive for student pocketbooks.

So now, in addition to the regular 80-cent shake, the center offers a 10-ounce "mini-shake" for 50 cents. Martin says the students appear quite pleased with the new scaled-down treat.

#### **Blue Cheese Available Again**

As for another of its renowned products the center will resume sales of blue cheese March 1.

The center has been out of the cheese since December, says Martin, because of the "tremendous amount" sold for the Christmas and Thanksgiving holidays.

Made from surplus milk from dairy research, blue cheese is priced as follows:

|           |                      |
|-----------|----------------------|
| --Wheel   | \$3.25/lb.           |
| --Wedges  | \$3.75/lb.           |
| --Crumble | \$2.50/10-oz. carton |
|           | \$1.35/5-oz. carton  |

Although mail orders for cheese are no longer accepted, mailing boxes will be offered for 25 cents each beginning the end of March, Martin says.

#### **SUMMER JOBS AVAILABLE AT OUTDOOR LABORATORY**

The recreation and park administration department has a number of summer positions available at the Outdoor Laboratory, which includes Camp Hope, Camp Logan and Camp Sertoma.

RPA staff assistant Becky DeWitt says group counselors, waterfront and small-craft instructors, unit leaders and program directors are needed.

There are also positions open for a crafts director and a camp nurse, as well as for food service and maintenance personnel, she says.

Salary depends on position. Room and board will be available from early June until early August.

DeWitt says previous camp work experience is desirable but not mandatory.

Interested persons should contact DeWitt or associate RPA professor Charlie Whit at the Outdoor Laboratory's office (646 7502).

## CHE CHAIRMAN SAYS STATE WILL MEET CHALLENGE

The chairman of the state Commission on Higher Education said here last week that developing an acceptable plan in response to the U.S. Department of Education's findings that South Carolina's public institutions of higher education retain vestiges of racial segregation will be a challenge.

But, he said, "We are going to do it."

James Bostic spoke in Hardin Hall auditorium last Wednesday night and said the state has until March 8 to present a plan addressing the education agency's conclusion that state colleges and universities must do more to desegregate racially or face losing federal funds.

"At question in South Carolina is \$75 million in federal money that goes to higher education," he said.

Bostic said the education department's findings -- contained in a Jan. 7 letter to Governor Richard Riley -- mention five areas where action is needed on the part of the state:

- racial composition of enrollments;
- resource allocation among institutions;
- duplication of curricula and programs;
- racial composition of institutional governing bodies;
- racial composition of faculties and administrations.

"This letter provides us with a unique opportunity to focus the attention of the leaders of the state on some of these problems," he said.

He said CHE is working through a steering committee and several technical committees to propose ways to improve state higher education in each of the areas cited.

Since CHE's proposals are still being developed, he said, he does not know what the specifics of the plan will be.

In general, however, he said the plan will address the need for better recruitment and retention programs to diversify to a greater extent the racial makeup of state institutions.

## Outlook Under Reagan

On campus at the invitation of the student organization PAMOJA, Bostic also said he anticipates the Reagan Administration's programs to be significantly different from those of recent presidents.

"There's a concerted effort by the new administration to bring about historic changes in the role of the federal government," he said.

How one views those changes, he said, will depend largely on one's expectations.

"The people who voted for the winning candidates are going to expect the winners to try to do some of the things they said they would do, and the losers are going to be chagrined by some of those things," he said.

Bostic recently turned down a high-level post in the U.S. Department of Agriculture offered to him by President Reagan.

A Clemson alumnus, Bostic spoke here as a part of PAMOJA's observance of Black History Month.

## CERTAIN EMPLOYEES MUST FILE ECONOMIC INTERESTS STATEMENTS

Under the State Ethics Law -- which was amended during the 1980 legislative session -- certain state employees must file annual Statements of Economic Interests.

Making \$20,000 or more a year no longer means an employee has to file a statement.



The Personnel Office already has notified those employees who, because of the types of positions they hold with the University, must file statements for 1980.

However, any employee who falls into one of the 13 categories listed below is obligated to file an economic interests statement.

The filing deadline is April 15.

If you think one of the categories below might be applicable to you, you should check with the Personnel Office (ext. 2426) or with the State Ethics Commission (P.O. Box 11627, Columbia, SC 29211; 758-7408) for more information.

Statements of Economic Interests for 1980 must be filed by:

- All elected officials of the state, counties, municipalities and political subdivisions.
- All candidates for public, elective office.
- Any person appointed to fill an unexpired term in an otherwise elective office.
- All employees of regulatory agencies who are associated with a regulated business.
- Salaried members of state boards, commissions or agencies.
- The chief administrative official or employee of each state agency or department and of each county, municipality and political subdivision.
- The deputy administrative official or employee of each state agency or department.
- The director of each separate institution or facility of a state agency or department.
- All county board of education and school district board members.

-- All county school district superintendents of education.

-- The chief financial official or employee of each state agency or department and of each county, municipality and political subdivision.

-- The chief purchasing official or employee of each state agency or department and of each county, municipality and political subdivision.

-- All members of the judiciary.

#### INVESTIGATORS REMINDED OF MARCH 15 DEADLINE

March 15 is the deadline for submission of applications for Biomedical Research Support Grant funding for biomedical or behavioral, health related, pilot research projects.

The University expects to receive \$30,000 in BRSG funds this spring from the National Institutes of Health and has established a committee to determine how the funds will be allocated.

This committee has decided the funds will be used to support pilot, biomedical or behavioral research by young investigators (defined as one generally not more than five years past the Ph.D.)

Applications -- using Public Health Service 398 forms and format -- should be submitted to the Office of University Research (E-102 Martin Hall). Proposals should be completed for peer review, and budgets should contain only items requested from BRSG.

The funds will be awarded not later than April 15 on the basis of competitive peer review. The committee anticipates making five or six awards.

Applications are being accepted from young investigators, faculty who joined the University after Aug. 15, 1980, and mature investigators reorienting the directions of their research.

Questions concerning BRSG, the application process and/or applicant eligibility should be directed to the Office of University Research (ext. 2375).

**COUNCIL MINUTES AVAILABLE  
FROM PROVOST, IN LIBRARY**

Copies of the minutes of the Jan. 30

President's Council meeting are available in Provost David Maxwell's office (207 Sikes Hall).

Also, a copy has been sent to the library and may be reviewed there.

Minutes of all future Council meetings also will be available in these locations.

## Calendar of Campus Events

February 23-March 1

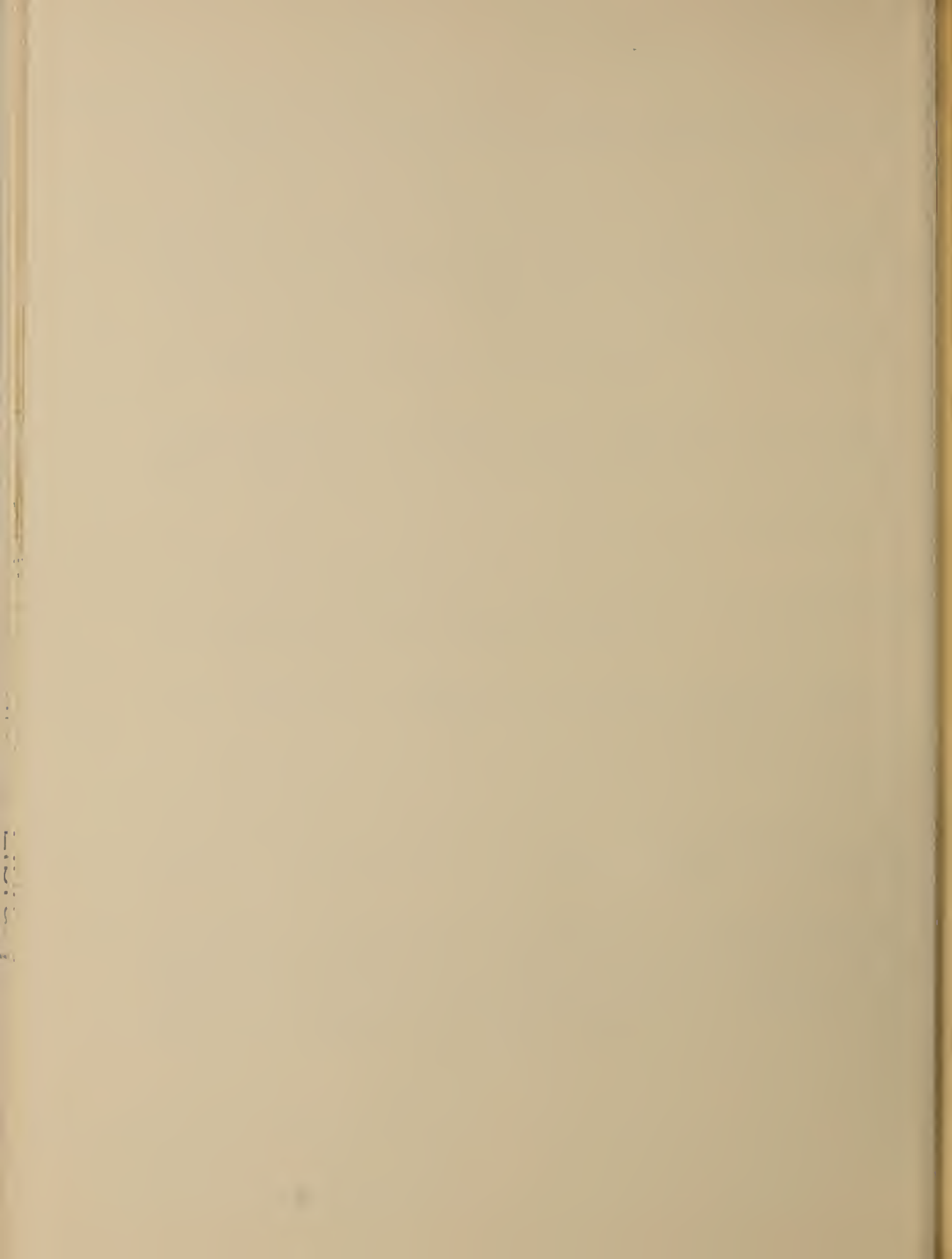
- 23-3/1 -- Musical: "Where's Charley?" A musical version of the popular farce "Charley's Aunt." Presented by Clemson Players, Daniel Auditorium, 8 p.m. except 3:30 p.m. matinee Thursday, Feb. 26. Open to the public, free with University I.D., \$1 admission charge without University I.D.
- 23 -- Spanish Film. Sponsored by department of languages, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 23-3/1 -- Videotapes: "Beach Boys" and "Pat Benatar, Jethro Tull, Ian Hunter." Sponsored by University Union, loggia, shown on request.
- 24 -- Musical Entertainment: "Rock Around the Clock." Sponsored by University Union, Edgar's, 9 p.m., \$1 admission charge with University I.D.
- 24 -- Short Course: "CPR" begins. Sponsored by University Union, details and sign up at Union Information Desk.
- 24 -- Tennis: UNC-Charlotte (Men), Sloan Tennis Center, 2 p.m.
- 24 -- Workshop: "Today's Saleswoman." Sponsored by Office of Professional Development, for more information call 656-2200.
- 24-25 -- Workshop: "TRS-80 Hardware Interfacing." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 24-26 -- Workshop: "Current Technology in Drawing Through Spinning: Ring and Open End." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 25 -- Basketball: Duke (Men), Littlejohn Coliseum, 8 p.m.

## Calendar of Campus Events (Cont.)

- 25 -- Short Courses: "How to Buy a Stereo" and "Make-up" begin. Sponsored by University Union, details and sign up at Union Information Desk.
- 25-3/13-- Room Reservation. Submit application to Housing Office.
- 25 -- Film: "Lover Come Back." A vintage Doris Day film which offers insights into sex role stereotyping prevalent in light comedy films of the 1960s. Part of the Film as Social Criticism Series, sponsored by departments of English and sociology, Lee Hall Auditorium, 7:30 p.m., free.
- 25 -- Film: "The Scroll of Time." Part of Japanese Film Series II, sponsored by department of architectural studies; 3:45-4:45 p.m., Lee Hall Auditorium, free. For more information, call 656-3081.
- 26 -- Lecture: George Zapp, vice president of PPG Industries, delivers a Distinguished Chemical Industry Business Seminar. Sponsored by chemistry and geology department, 11:15 a.m. in Earle Hall Auditorium, 4:30 p.m. in 131 Brackett Hall, free, open to the public.
- 26 -- Tennis: Presbyterian College (Men), Sloan Tennis Center, 2 p.m.
- 26-28 -- Swimming: ACC Tournament (Men), Fike Recreation Center.
- 26 -- Film: "Picnic at Hanging Rock." Lee Hall Auditorium, 7:30 p.m., presented by Five Directions Cinema, \$3 admission charge, series subscriptions available, call 656-3272, 3421 or 3437 for information.
- 27-28 -- Musical Entertainment: Flight. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, \$1 admission charge.
- 28 -- Basketball: District of Columbia (Women), Littlejohn Coliseum, noon.
- 28 -- Basketball: Baltimore (Men), Littlejohn Coliseum, 2 p.m.
- 28 -- Fencing: UNC (Men), Fike Recreation Center, time to be announced.
- 3/1,2 -- Auditions: "One Flew Over the Cuckoo's Nest." Clemson Players production, Daniel Hall Auditorium, 7:30 p.m. Open to all students.
- 1-16 -- Art Exhibition: Recent sculpture by Edward Mayer, associate professor of art at Ohio University. Mayer's unusual approach to sculpture relies on staking 4-foot lengths of lath wood into self-enclosed structures, with the wood relying solely on its weight to hold it in place. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to public, free.







FEB 25 1981

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



CLEMSON UNIVERSITY LIBRARY  
SOUTH CAROLINA ROOM

## IM & TS FACULTY PARTICIPATE IN INTERNATIONAL PROGRAM

It's international intrigue at its best.

And the plot is set in such exotic places as Covilha, Portugal, and Clemson, S.C.

The mission the University has decided to accept is to help Portugal's Instituto Politecnico da Covilha develop its textile and management programs.

As part of a program sponsored by the U.S. Agency for International Development, the College of Industrial Management and Textile Science has received \$460,000 to provide technical assistance to Portuguese faculty members.

Hassan Behery, an associate professor of textiles here, is principal investigator for the project.

He says the program will take several Clemson faculty members to the Covilha institute for varying time periods over the next four years.

Plus eight Portuguese faculty members will study here in the areas of textile technology, textile chemistry, fiber physics, and management and administration of textile industries.

"They [the Portuguese] will be here to learn subject matter as well as teaching techniques," says Behery.

"This project gives Clemson a very good international exposure," he says.

The first Clemson faculty member to participate in the program is Steve LaRoche, a professor of industrial management.

LaRoche has already gone to Portugal to



**SELF-RELIANCE** -- The sculpture currently on display in the Rudolph E. Lee Gallery literally stands on its own merit. Edward Mayer, an associate professor of art at Ohio University, is shown arranging 4-foot lengths of lath wood which rely solely on their own weight to hold together in a self-enclosed structure.

lay the groundwork for the project and will return here in June.

#### DEADLINE MOVED UP FOR FINANCIAL AID

Apply now.

That's the advice financial aid director Marvin Carmichael has for you, if you're planning to borrow money for your children's college expenses here next year.

"We're expecting a higher demand with less money," says Carmichael, "so we've had to move our deadline for applying for University loans and work-study programs to April 1."

He says the deadline used to be June 1, but because of inflation, the recession and anticipated cutbacks in federal funds, his office expects an avalanche of applications this year and needs more time to evaluate aid requests.

"Any application we receive after April 1 will be considered on a 'funds available' basis, so we're encouraging students to apply as soon as they can," he says.

The programs affected by the April 1 deadline are the National Direct Student Loans and the College Work-Study Program, both of which are based on financial need.

Deadline for application to the higher-interest Guaranteed Student Loan Program for South Carolina residents is July 1, although Carmichael advises early application for that program too.

Students also should apply right away for Basic Educational Opportunity Grants, now called Pell Grants, he says.

The tangle of federally supported aid-to-student programs has grown in recent years.

According to a recent issue of "The Chronicle of Higher Education," the Guaranteed Student Loan Program alone went from \$1.5 billion in 1977 to \$4.8

billion in 1980, largely because of skyrocketing interest rates.

Under the program, Uncle Sam picks up the difference between the 9 percent interest guaranteed to students and whatever the prevailing interest rate is at banks actually making the loans.

Budget watchers in Washington expect this costly program to be a prime target for cuts by the Reagan administration.

Carmichael says, "I think we're going to see some changes in the Guaranteed Student Loan Program. But there's a lot of uncertainty out there. We just don't know what the outcome will be."

He says students and parents cannot afford to take a "wait-and-see" attitude, however, so he's telling everyone within earshot to apply early for all types of aid.

He adds that deadlines may vary from school to school, so if you need details on the situation at another institution, you should check with the financial aid office there.

#### RPA LECTURER, STUDENTS HELP SPECIAL OLYMPIANS

A lecturer in the recreation and park administration department and some of her students are working to send three local athletes to the National Special Olympics in Stowe, Vt., March 8-13.

Marcia Wallenius, who teaches courses on recreation programs for persons with special needs -- such as the elderly and the mentally and physically handicapped, coordinates local Special Olympic events and has her students get involved.

At the regional winter games last month in Boone, N.C., three athletes from this area qualified for national competition by taking two gold medals and one silver.

"We knew they [the athletes] would compete well, but the medals were really a surprise," says Wallenius.



"There aren't any winter sports facilities in South Carolina," she says, "and none of our athletes had ever competed in these events before. But with only three days practice at Boone, they all came home champions."

The athletes are David Pitts of Seneca, Cathy Rudisill of Clemson and Sammy Roach of Anderson.

In Vermont, Pitts will compete in downhill skiing, Rudisill in ice skating, and Roach in cross-country skiing.

Proctor and Gamble Inc. has volunteered to help sponsor Special Olympic competitors nationwide by redeeming proof-of-purchase seals from selected products.

For Pitts, Rudisill and Roach to qualify for this support, 50,000 seals must be collected locally before this Saturday (Feb. 28), and Wallenius and her students are leading the drive.

Wallerius says Proctor and Gamble would provide half the money needed for the trip north, while the rest will come from donations from individuals and civic organizations.

To help, contact Wallenius (ext. 2226) or the RPA department (ext. 3400).

#### CONSULTANTS RECEIVE COMMENTS ON MASTER PLAN FOR CAMPUS

"McGinty Mall is too hot and glaring during the summer."

"When I sail on the lake, my view of Tillman Hall is blocked by the new addition."

"I miss the weeping willows by the reflection pool."

These are some of the comments heard by University planning consultants working in the library last week.

The complaints and advice came from faculty and staff members and students who dropped by the consultants' temporary headquarters to discuss the compre-

hensive master plan being developed for the campus.

(McGinty Mall is the plaza area surrounded by Barre, McAdams and Lehotsky halls.)

"Most of the comments concern the [physical] character of the campus," said Jim Boniface, a consultant with Lockwood Greene Inc.

He said opinions most often voiced include suggestions that Johnstone Hall should be replaced, more parking spaces should be available, Bowman Field should be left intact, and more provisions should be made for bicycle traffic.

But, he said, few mentions were made of the costs of new construction.

As comments were received, Boniface and Truitt Rabun of Edward Pinckney Associates recorded them on two large maps of the campus. This "issue mapping" is a part of the second phase of the master planning project.

During the first phase, the consultants inventoried existing facilities and studied such characteristics as climate and natural resources.

The next step will be to develop framework plans to "serve as a skeleton for growth," Rabun said. He said these plans will define, in general terms, what physical characteristics are most important and how those should be treated.

He used trees as an example: "We like trees; they add to the character of the campus. Therefore, they should be preserved wherever possible."

Boniface said a "group approach" is being used to develop the master plan. He said that means consultants with varying backgrounds are involved and emphasis is being placed on faculty, staff and student participation.

"We [the consultants] don't live here, but you do," he said.



Boniface is an urban designer, while Rabun is a landscape architect.

The planning process is due for completion in early 1982.

#### ETV PROGRAM EXPLORES FARMERS, FOOD AND FIBER

The role of farmers in the production of food and fiber will be explored in a 30-minute television show being prepared by the Cooperative Extension Service and Agricultural Experiment Station.

The program, "Food for Billions," will be aired this weekend on educational television stations across the state.

Agricultural economists Hal Harris and Bobby Robinson, state Extension program leader Lynn Harwell, and Extension home economist Rose Davis will analyze the links between farmers and consumers in South Carolina.

Also, interviews with farmers and consumers will be included.

"Food for Billions" will be shown this Saturday (Feb. 28) at 7:30 p.m. on:

- WNTV, Channel 29, Greenville.
- WRLK, Channel 35, Columbia.
- WJPM, Channel 33, Florence.
- WITV, Channel 7, Charleston.
- WEBA, Channel 27, Barnwell.

The program will be shown at 4:30 p.m. this Saturday on WJWJ, Channel 16, Beaufort, and at 7:30 p.m. March 6 on WNSC, Channel 30, Rock Hill, and WRJA, Channel 27, Sumter.

#### INVESTIGATORS REMINDED OF MARCH 15 DEADLINE

March 15 is the deadline for submission of applications for Biomedical Research Support Grant funding for biomedical or behavioral, health related, pilot research projects.

The University expects to receive \$30,000 in BRSG funds this spring from the National Institutes of Health and has established a committee to determine how the funds will be allocated.

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The funds will be awarded not later than April 15 on the basis of competitive peer review. The committee anticipates making five or six awards.

Applications are being accepted from young investigators, faculty who joined the University after Aug. 15, 1980, and mature investigators reorienting the directions of their research.

Questions concerning BRSG, the application process, or applicant eligibility should be directed to the Office of University Research (ext. 2375).

#### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

B.L. Dillman (Prof) presented a paper, "Perspectives on the Preservation of Prime Agricultural Lands," at the National Association of Conservation Districts' Southeast Region meetings here Jan. 8.

J.C. Hite (Prof) served as a member of the Steering Committee for the S.C. Assembly on Growth Jan. 8-11 at Hilton Head and authored one of the assembly's papers, "Socio-Economic Profile of South Carolina in 1980."

Prof Hite also participated in a workshop on research needs and priorities in rural development sponsored by the

Southern Rural Development Center in Atlanta, Ga., Feb. 4-5.

S.E. Miller (Asst Prof) published an article, "Beef Price Hedging Opportunities for Food Service Institutions," in the Journal of Food Distribution Research, 11, No. 3 (September 1980).

G.J. Wells (Asst Prof) and J.F. Pittman (Prof) published "Assessment of the Price Impact of the South Carolina Cucumber Marketing Order" in Southeast Journal of Agricultural Economics, 12, No. 2 (December 1980), 15-18.

E.D. Wynn (Assoc Prof) chaired a panel on "Poverty and Well-Being" at the 78th annual meeting of the Southeast Association of Agricultural Scientists held in Atlanta, Ga., Feb. 1-4. He also recently was elected president of the South Carolina Community Development Association for 1981.

At the Southern Agricultural Economics Association meetings in Atlanta, Ga., Feb. 2-4, the following papers were presented:

-- "Protection of Florida Tomato Growers Using Tariffs: A Quantitative Assessment Through Industry Simulation," by M.D. Hammig (Asst Prof).

-- "Protection of Agricultural Lands: An Institutional Perspective" by Profs. Hite and Dillman.

-- "An Analysis of Buyer Concentration and Slaughter Hog Prices" by Prof. Miller and H.M. Harris Jr. (Prof).

-- "Cross Hedging Wholesale Beef Prices: An Application of Varying Parameter Regression" by Prof. Miller and D.B. Dukes (Grad Stu).

-- "Economics of Vertical Integration and Beef Genotype" by K.W. Stokes (Asst Prof). This paper was co-authored by D.E. Farris and T.C. Cartwright of Texas A&M University.

-- "Extension Programming for Reality" by M.L. Wise (Asst Prof).

## AGRICULTURAL EDUCATION

During the 74th annual convention of the American Vocational Association held in New Orleans, La., Dec. 5-9, the following occurred:

-- J.A. Hash (Prof) chaired the Editing-Managing Board of the American Association of Teacher Educators in Agriculture (AATEA) Journal and gave the board's annual report at AATEA's executive committee and general business meetings.

-- Prof. Hash was appointed to a three-year term on the Agricultural Education Division's Professional Personnel Recruitment Committee.

-- J.H. Rodgers (Prof and Hd) served as discussant of three research papers at the third session of the National Agricultural Education Research Meeting.

Prof. Rodgers has been elected vice president of the Southern Region of the American Association of Teacher Educators in Agriculture for 1981-83.

## AGRICULTURAL ENGINEERING

J.T. Ligon (Prof), with the department of plant pathology and physiology, has a \$9,000 grant from USEPA for a study, "DBCP Residue Study in Certain Areas of South Carolina."

At the winter meeting of the American Society of Agricultural Engineers in Chicago, Ill., Dec. 2-5, the following papers were presented:

-- "The College-Industry Partnership from the Viewpoint of Teaching/Research" by B.K. Webb (Prof and Hd).

-- "Runoff Water Quality from Dairy Pastures in the Piedmont Region" by L.E. Reese (Former Grad Stu), R.O. Hegg (Assoc Prof, For) and R.E. Gantt (Chem).

-- "Scheduling Irrigation for Southern Coastal Plain Soils" by C.R. Camp and G.W. Doty (USDA-SEA-AR) and G.D. Christenbury (Assoc Prof).

-- "Analysis of Instantaneous Milk Flow Patterns" by M.J. Delwiche (Asst Prof) and N.R. Scott and C.J. Drost (Cornell Univ.).

-- "Agronomic, Energetic and Economic Implications of Alternative Saginaw Valley Cropping Systems" by F.J. Wolak (Asst Prof) and Roy Block (Mich. St. Univ.).

Before the Chicago meeting began, J.R. Lambert (Prof) and E.W. Page (Assoc Prof, Comp Sci) conducted a workshop, "TRS-80 Hardware Interfacing for Control Applications."

R.A. Spray (Assoc Prof), Prof. Christenberry and J.M. Bunn (Prof) have obtained a \$110,000 grant from USDA-SEA-CE for 10 South Carolina demonstrations of "On-Farm Solar Crop Drying."

#### AGRONOMY AND SOILS

At the conference of the Southern Association of Agricultural Scientists Feb. 1-4 in Atlanta, Ga., the following occurred:

-- U.S. Jones (Prof) chaired the Soils Division and presented a paper, "Acid Rain -- Causes and Effects on Agroecosystems," with E.L. Suarez (Instr).

-- P.T. Evans (Grad Asst) and E. A. Rupert (Prof) presented a paper, "Pollen-Tube Growth Following Interspecific Cross-pollinations in Trifolium Section Lotoidea."

-- J.R. Woodruff (Prof) delivered a paper, "Corn Response to Boron Under Irrigation."

B.U. Kittrell (Assoc Prof) served as vice chairman and presided over the Regional Tobacco Growth Regulator Committee at the 29th Tobacco Workers' Conference in Lexington, Ky., Jan. 19-22. He also presented the papers "Trends in Tobacco Fertilization in South Carolina" and "Results of On-Farm Tests Using Coloring Agents."

J.P. Chernicky (Grad Asst), B.J.

Gossett (Prof) and V.L. Quisenberry (Assoc Prof) presented a paper, "Factors Influencing the Response of Annual Grasses to BAS-9052 and RO-13-8895," at the 34th annual meeting of the Southern Weed Science Society Jan. 20-22 in Dallas, Texas. This paper won second place in the Graduate Student Contest.

#### ANIMAL SCIENCE

J.R. Diehl (Assoc Prof) spoke on "Feeder Pig and Farrowing House Managers Workshop" at a meeting of feeder pig and farrowing houses managers Dec. 3-4 in Amana, Iowa.

Prof. Diehl, assisted by C.W. Ackerman (Prof), John Albrecht (Assoc Prof) and W.G. Brown (Prof), presented training material, "Artificial Insemination in Swine," for an Extension Service short course for swine producers held here Dec. 8-9.

J.C. Spitzer (Assoc Prof) contributed the following:

-- "Reproductive Evaluation of Beef Bulls for Use in Natural Mating," and "Managing Heifers for a High Reproductive Rate," in the Proceedings of the 1980 annual meeting of the West Virginia Beef Cattle S.C. and West Virginia Cattlemen's Association in Jackson's Mills, W.Va.

-- "Nutrition for Reproduction in the Beef Cow," in the Proceedings of the Edisto Experiment Station Beef Cattle Day, Edisto Experiment Station, Dec. 12 in Blackville.

-- "Evaluation of 17 $\alpha$ -acetoxy-11 $\beta$ -Methyl-19-nor-preg-4-ene-3, 20 dione (Norgestomet) for Synchronizing and Inducing Estrus in the Ewe to Produce Fetuses of Known Gestational Age," (p. 27) and "A Management Program for Production of Pregnant Ewes with Fetuses of a Known Gestational Age" (p. 77) with R.H. Carpenter (Asst Prof, Univ. of Texas) in the abstract of the 31st annual session of the American Association of Lab Animal Science in Indianapolis, Ind.



-- "Bull Breeding Soundness Evaluations," at the University of Georgia Beef Cattle Short Course Jan. 13 in Tifton, Ga.

G.C. Skelley (Prof), C.E. Thompson (Assoc Prof), D.L. Cross (Assoc Prof and Actng Hd) and L.W. Grimes (Asst Prof, Exp Sta) published "Carcass Characteristics of Polled Hereford X Angus, Charolais X Angus, Simmental X Angus and Holstein X Angus Steers Finished on High Silage Diets," in the Journal of Animal Science, 51, No. 4. (1980).

#### ARCHITECTURAL STUDIES

M.A. Davis (Assoc Prof) presented a paper, "Performance of a Partially Autonomous Solar Greenhouse Residence" at the International Energy Conference sponsored by Florida International University Dec. 7-12 in Miami Beach, Fla. He co-authored the paper with Dan Ezell (Prof, Hort).

Johannes Holschneider (Prof) published "Lernen von Venturi, Ideen eines Aussenseiters" in Architektur und Wohnen, No. 4, 164-170.

#### BIOCHEMISTRY

M.B. Cable (Grad Asst) and G.L. Powell (Prof) have published a paper, "Spin-Labeled Cardiolipin: Preferential Segregation in the Boundary Layer of Cytochrome c Oxidase," in Biochemistry, 19, (1980), 5679-5686.

#### BUILDING SCIENCE

M.D. Egan (Assoc Prof) attended the Lighting Research and Education Roundtable Jan. 19-21 in Charlottesville, Va., sponsored by the Illuminating Engineering Society of North America and National Bureau of Standards to formulate a national agenda for research and education in the United States during the next two decades.

Prof. Egan also was an invited participant in a workshop on standardization process and uses at the ASTM Faculty Intern Program Jan. 6-7 in Philadelphia,

Pa., sponsored by the American Society for Testing and Materials.

#### CHEMISTRY AND GEOLOGY

R.A. Abramovitch (Prof and Hd) presented a seminar, "Gas Chromatography/Mass Spectrometry," at Claflin College Jan. 21.

Prof. Abramovitch, S.P. McManus (Prof, Univ. of Alabama in Huntsville) and Margarita Ortiz (Grad Stu) published two papers, "Reaction of Aromatic Sulphonyl Azides with Dienes" (p. 330) and "Reaction of p-nitro-benzenesulphonyl Azides with Alkylidenescycloalkanes" (p. 336) in J. Org. Chem., 46, (1981).

R.D. Warner (Asst Prof), G.J. Taylor and K. Keil (colleagues from the Univ. of New Mexico) have published the following in Proc. Conf. Lunar Highlands Crust (1980), ed. by J.J. Papike and R.B. Merrill:

-- "Petrology of 60035: Evolution of a Polymict ANT Breccia" (pp. 377-394).

-- "Silicate Liquid Immiscibility, Evolved Lunar Rocks and the Formation of KREEP" (pp. 339-352).

-- "Aluminous Mare Basalts: New Data from Apollo 14 Coarse Fines" (pp. 87-104).

#### COMPUTER SCIENCE

J.C. Peck (Prof) and H.A. Pellerin (Asst Prof) spoke and gave a demonstration on "Automated Speech Synthesis and Speech Recognition" to the Greenville Association for Systems Management Jan. 27.

#### DAIRY SCIENCE

At the 58th annual meeting of the Southern Branch American Dairy Science Association Feb. 1-4 in Atlanta, Ga., the following papers were presented:

-- "Endocrine Response to GnRH in the Unilaterally Castrated or Unilaterally Cryptorchid Bull" by M.A. Barnes (Asst Prof), F.R. Boockfor (Grad Asst), S.T.



Bierley (Res Tech), G.W. Kazmer (Grad Asst), R.D. Halman (Grad Stu) and J.F. Dickey (Prof).

-- "Effects of Unilateral Castration and Unilateral Cryptorchidism on in vitro Leydig Cell Response in Bulls" by Boockfor, Prof. Barnes and Prof. Dickey.

-- "ACTH Suppression of GnRH Induced Gonadotropin Release in Steers and Bulls" by Kazmer, Prof. Barnes, Halman, G.P. Birrenkott (Asst Prof, Poul Sci) and L.W. Grimes (Asst Prof, Exp Stat).

-- "Further Studies on the Regulation of Estradiol Binding Sites by Exogenous Administration of Ovarian Hormones to Bovine Endometrial Cells Grown in Monolayer Culture" by M.F. McGrath (Grad Stu) and Prof. Dickey.

-- "Histological Observations of the Testes of the Unilaterally Castrated or Unilaterally Cryptorchid Bull" by Halman, M.E. Richardson (Instr), Prof. Dickey and Prof. Barnes.

-- "A Comparison of Two Systems for Packaging Milk" by J.T. Lazar (Prof) and D.J. Schumacker (Grad Asst).

-- "The Effect of Lactose Hydrolyzed Milk Upon Flavor Development in Blue Cheese" by Schumacker, A.B. Bodine (Asst Prof), W.P. Byrd (Prof), J.J. Janzen (Prof) and Prof. Lazar.

-- "Relationship of Protease Activity to the Flavor Score and Shelf-life of Skim and Whole Milk" by J.R. Bishop (Grad Stu), Prof. Janzen and Prof. Bodine.

-- "Performance of Calves Fed Milk Replacer Once Daily at Various Fluid Intakes and Dry Matter Concentrations" by B.F. Jenny (Assoc Prof), H.J. van Dijk (Grad Stu), Prof. Grimes and G.D. O'Dell (Prof).

-- "Effect of Dry Matter on Acid Detergent Insoluble Nitrogen in Alfalfa Haylage Stored in Miniature Oxygen Limiting Structures" by M.E. Moore (Grad

Asst), C.K. Wheat (Grad Asst), and Prof. O'Dell.

-- "Comparison of Dairy Waste Solids and Crushed Lime as Bedding in Free Stalls" by Bishop, Prof. Janzen and Prof. Bodine.

#### ELEMENTARY & SECONDARY EDUCATION

G.W. Gray (Prof) has been appointed associate editor of monographs for the College Reading Association and elected to the board of directors of the National Reading Forum.

#### ENGLISH

R.W. Hill (Assoc Prof) published "Chicago: Lake Shore and Twenty-Third" and "Reading the Lines," two poems, in Ascent, Jan. 1981, pp. 48-49.

M.T. Inge (Prof & Hd) and R.F. Lunsford (Asst Prof) were readers for the College Board Essay Test administered by the Educational Testing Service at Princeton, N.J., in December.

-- G.W. Koon (Assoc Prof) published "Mark Steadman" in Dictionary of Literary Biography, Volume Six: American Novelists Since World War II, ed. by J.E. Kibler Jr. (Detroit: Gale Research Company, 1980), pp. 327- 330.

Roger Rollin (Lemon Prof) published "TV Heroes and the Denial of Death" in Prospects: An Annual of American Cultural Studies, 5, (New York, 1980).

Fred Shilstone (Assoc Prof) published "A Grandfather, A Raft, A Tradition: The Shipwreck Scene in Byron's Don Juan" in Tennessee Studies in Literature, 25 (1980), 94-109.

#### ENTOMOLOGY, FISHERIES AND WILDLIFE

T.M. Brown (Asst Prof) and Karen Bryson (Res Spec I) presented "Susceptibility of the Tobacco Budworm to Synthetic Pyrethroid Insecticides in S.C." at the FMC Corporation research group meeting in New Orleans, La., Nov. 18-19.

S.B. Hays (Prof and Hd) participated as a Governing Board member at the National Entomological Society Meeting in Atlanta, Ga., Nov. 29, 30 and Dec. 3.

He also participated in the national meeting of entomology department heads and the Southeastern Branch ESA Board of Directors meeting held in conjunction with the parent society meeting and was presented an award for dedicated service to the society.

Papers presented at the ESA meeting include:

-- "Field Evaluation of a Nuclear Polyhedrosis Virus Against the Velvetbean Caterpillar on Soybean" by R.M. Beach (Grad Res Asst), G.R. Carner (Prof) and S.G. Turnipseed (Prof).

-- "Pecan Weevil Larval Survivability and Adult Emergence as Related to Orchard Soil Parameters in South Carolina" by W.G. Hanlin (Grad Asst) and D.R. Alverson (Asst Prof).

-- "Plum Curculio: Seasonal Abundance and Temporal Aspects of Damage in Peaches" by G.T. Lee (Grad Asst) and C.S. Gorsuch (Asst Prof).

-- "The Immature Stages of Cernotina (Trichoptera: Polycentropididae)" by J.C. Morse (Assoc Prof).

-- "Biology of an Australian Assassin Bug, Pristhesancus papuenis" by R. McWhorter (Ag Sci Assoc II) and M. Shepard (Prof).

-- "The Cross Infectivity of Nuclear Polyhedrosis Viruses of Armyworms" by C.B. Moore (Clin Lab Tech II, College of Sciences) and Prof. Carner.

-- "Population Characteristics of the Rose Aphid, Macrosiphum rosae (L.) on Hybrid Tea Roses" by Prof. Alverson and D.W. Parler (Grad Asst).

-- "Foliage Consumption by the Soybean Looper: Influence of Parasitization by Litomastix bakerii and Infection by a Virus" by D. Pettigrew (Former Grad Res

Asst), Prof. Carner and Prof. Shepard.

-- "Development and Dispersal of the Stink Bug Parasitoid, Trissolcus basalis, in Soybeans" by J. Powell (Grad Res Asst), Prof Shepard and M.J. Sullivan (Assoc Prof).

-- "Resistant Plants: Present Role and Future Potential" by Prof. Sullivan, W.V. Campbell (N.C. State, Dept. of Ent.) and M. Kogan (Illinois Natural History Survey).

-- "Sampling in Soybean Entomology: Principles and Applications in IPM" by Kogan and Prof. Shepard.

-- "Microbial Agents as Control Factors and Strategies" by W.C. Yearian (Virology-Biocontrol Laboratory, Fayetteville, Ark.), Prof. Carner and J.D. Harper (Dept. of Zool.-Ent., Auburn Univ.).

-- "Utilization of Predators and Parasites in Developing IPM Strategies" by Prof. Turnipseed, K.V. Yeargan, (Dept. of Ent., Univ. of Ky.), and H.N. Pitre (Dept. of Ent., Miss. State Univ.).

Prof. Eversole (Assoc Prof) and M.J. Hinton (Former Grad Stu) published "Toxicity and Tolerance Studies with Yellow-phase Eels: Five Chemicals" in Progressive Fish-Culturist, 42, No. 4 (1980), 201-203.

T.R. Adkins Jr. (Prof) served on the National Research Council panel which evaluated applications for National Science Foundation Postdoctoral Fellowships Dec. 12-13 in Washington, D.C.

C.S. Gorsuch (Asst Prof) published "Rhododendron Pests" in The Rosebay, American Rhododendron Society, Massachusetts Chapter. The paper was originally presented at the Southeastern Joint Meeting of the American Rhododendron Society Oct. 24-26 in Greenville.

D.L. Robinette (Assoc Prof) attended the third triennial Southern Region Extension Fisheries & Wildlife Specialists meeting held in conjunction

with the 34th annual conference of the S.E. Association of Fish & Wildlife Agencies in Nashville, Tenn., in November 1980. He was elected co-chairman for the fourth triennial meeting to be held in 1983.

#### ENVIRONMENTAL SYSTEMS ENGINEERING

A.W. Elzerman (Asst Prof) has published a paper, "The Mechanism for Dry Deposition of Ozone to Seawater Surfaces," in the Journal of Geophysical Research, 85, (Dec. 20, 1980), 7488-7492, with J.A. Garland and S.A. Penkett of the Atomic Energy Research Establishment, Harwell, England.

#### EXTENSION HOME ECONOMICS

L.R. Mahrer (Housing Spec) was awarded the Ph.D. with a major in higher education and a minor in home economics, Dec. 31 from the University of Arizona in Tucson.

#### FORESTRY

B.F. DeGreenwood (Nat. Forest Serv., Paraguay) and F.H. Tainter (Assoc Prof) published a paper, "Comparative Decay Resistance of Paraguayan Woods," in Turriable, 30, No. 2.

B.A. Dunn (Assoc Prof), B.G. Lockaby (Former Grad Stu) and E.E. Johnson (Former Grad Stu) published a paper, "Camping and Its Relationship to Forest Soil and Vegetation Properties in South Carolina," as Department of Forestry Forest Research Series No. 34.

The following papers were presented at the Soil Science Society of America's annual meeting Nov. 30-Dec. 5 in Detroit, Mich.:

-- "Prescribed Burning and Water Quality of Ephemeral Piedmont Streams" by D.H. Van Lear (Prof).

-- "Soil Nutrient Distribution as Affected by Site Preparation in East Texas" by K.F. Ray (Asst Prof).

The Francis Marion National Forest

(USFS) has granted \$2500 to G.W. Wood (Prof) to study "American Woodcock Winter Habitat Utilization, Winter Abundance, and Nesting Habitat Characteristics on the Francis Marion National Forest."

The Southeastern Forest Experiment Station (USFS) recently funded two department of forestry research projects by D.D. Hook (Prof and Dir, Belle W. Baruch Forest Science Institute): "Effects of Soil Water Table Level and Phosphorous Fertilization on the Morphology and Physiology of Loblolly Pine Roots" (\$6,000) and "Effects of Soil Water Level on Survival and Growth of Loblolly Pine, Sweetgum, Swamp Tupelo and Bald Cypress" (\$4,000).

#### HISTORY

J.L. Arbena (Prof) has published a review essay, "A Storehouse of Evidence from the Past," in Americas (February 1981) and a review of Latin America in Caricature (Austin, 1980), by John J. Johnson, in South Eastern Latin Americanist (December 1980).

C.H. Lippy (Assoc Prof) reviewed Puritan Boston and Quaker Philadelphia by E. Digby Baltzell (p. 89) and Protestants and American Business Methods by Ben Primer (p. 91) in Religious Studies Review, 7, No. 1 (January 1981).

William Maker (Asst Prof, Phil) and W.H. Hunter, MD, published a joint article, "The Cultural Education of Physicians," in The Journal of the South Carolina Medical Association, 77, (February 1981), 79-81, and delivered a jointly authored paper, "The Importance of Philosophy in Pre-Professional Education," at the 1981 Southern Humanities Conference Feb. 5-7 in Charleston.

Prof. Maker also presented a paper, "Transcendental Philosophy, Wittgenstein's Tractatus and the Problems of Philosophical Suicide," to the philosophy department of the graduate faculty of the New School for Social Research in New York, N.Y., Dec. 18.



D.M. McKale (Prof) presented a paper, "Hitler is Alive: The Popular Postwar Craze," at the Western Association for German Studies meeting in Wichita, Kan., Oct. 3.

D.G. Paz (Vstg Asst Prof) published "The Episcopal Church in Local History Since 1950: An Annotated Bibliography" in the Historical Magazine of the Protestant Episcopal Church, XLIX (1980), 389-410.

Prof. Paz also read a paper, "Victorian Reform and the Social Control Hypothesis," at the Southern Conference on British Studies recently held in Atlanta, and his book, The Politics of Working-Class Education in Britain, 1830-50, was recently published by the Manchester University Press in England.

#### HISTORY AND VISUAL STUDIES

Tom Dimond (Asst Prof) had a painting selected for the annual competition of state artists sponsored by the Guild of S.C. Artists Nov. 15-Dec. 31 at the Gibbs Art Gallery in Charleston.

Prof. Dimond also had a one-man exhibition of paintings at Berry College's Moon Gallery in Rome, Ga., Jan. 5-30 and presented a slide lecture of recent work Jan. 5.

#### INDUSTRIAL MANAGEMENT

J.S. Hill (Asst Prof) and R.R. Still (Univ. of Georgia) have an article, "Cultural Effects of Technology Transfer by Multinational Corporations in Lesser Developed Countries," in the Columbia Journal of World Business, 15 (Summer 1980), 40-51.

W.E. Riggs (Asst Prof) had a paper, "A Comparative Analysis of Seasonal Style Goods Forecasting Techniques," accepted for presentation at the International Symposium on Forecasting May 27-29 in Quebec City, Canada.

N.K. Womer (Prof) was asked by the Office of Naval Research to review three series of studies of the supply of Navy recruits and presented his review at a

Workshop on Personnel Supply Models in Washington, D.C., Jan. 22-23. The review will be published in the proceedings of that meeting.

#### INFORMATION AND PUBLIC SERVICES

Dot Yandle (Assoc Dir) presided at one of the sessions on "Communicating Agriculture" during the Southern Association of Agricultural Scientists' meeting Feb. 1-4 in Atlanta, Ga.

#### LIVESTOCK-POULTRY HEALTH

T.H. Eleazer (Vet Pathologist) spoke to the Wildlife Society Jan. 28 in Columbia on "Current Wildlife Disease Problems in 'South Carolina' and presented a paper, 'Gamebird Disease Control,' at the North American Gamebird Association Short Course in Springfield, Ill., Jan. 13.

#### MATHEMATICAL SCIENCES

At the 87th annual meeting of the American Mathematical Society Jan. 9-11 in San Francisco, Calif., the following occurred:

-- J.V. Brawley (Prof) gave a talk, "Equivalence Classes of Certain Transformations on Vector Spaces Over a Finite Field," and chaired a session on matrix theory.

-- Renu Laskar (Prof) gave a talk, "Powers and Centers of Chordal Graphs," written jointly with Douglas Shier (Assoc Prof).

-- D.R. LaTorre (Prof) gave a talk, "O-classes in L-unipotent semigroups."

-- R.D. Ringeisen (Assoc Prof and Assoc Hd) presented a talk, "Fundamental and Uniform Mission Networks," written jointly with L. Lesniak-Foster of Western Michigan University.

-- Clayton Aucoin (Prof), editor of the Monograph Series for the Undergraduate Mathematics Applications Project chaired a meeting with the editorial board for Monograph.



-- S.M. Lukawecki (Prof), regional director of the National High School Mathematics Examination Contest, met with other regional directors to make arrangements for the annual Mathematics Contest, whose national winner then competes in an International Olympiad.

Prof. Shier has published a paper, "Selecting Optimal Product Sizes," in the UMAP Journal, 1, No. 4 (1980), 19-31, and has co-authored a paper with A. Goldman (Johns Hopkins), "Player Aggregation in Non-cooperative Games," in J. Research National Bureau of Standards, 85, No. 5 (1980), 391-396.

K.T. Wallenius (Prof) presented an invited paper, "Parametric Costs Methodology," to the 1981 Annual Reliability and Maintainability Symposium Jan. 27-29 in Philadelphia, Pa., sponsored by ASQC, IEEE and other organizations.

#### MECHANICAL ENGINEERING

A.C. Elrod (Assoc Prof) and R.L. Perry (Assoc Prof, ET) presented their continuing education seminar, "Boiler Efficiency Workshop," at Kingston, Jamaica, in September and December at the invitation of the Secretariat of the Caribbean Community.

Prof. Elrod has been selected to attend the 1981 Institute on Energy and Engineering Education to be held at Pennsylvania State University Feb. 26-March 1 by the American Consulting Engineers Council under sponsorship of the U.S. Department of Energy.

#### NURSING

New officers of the South Carolina Nurses' Association are: Mary Wilhite (Dir and Assoc Prof), Council on Education; Priscilla Ramsey (Vstg Instr), Council on Practice; Mary Ann Kelly (Assoc Prof), Committee on Nominations.

Barbara Barham (Vstg Instr), Arlene Privette (Instr) and Sherry Thompson (Asst Prof) have been selected to be in the 1980 edition of Outstanding Young Women in America.

#### PLANT PATHOLOGY AND PHYSIOLOGY

Helmuth Kraus-Schmidt (Former Grad Res Asst) and S.A. Lewis (Assoc Prof) published a paper, "Dynamics of Concomitant Populations of Hoplolaimus columbus, Scutellonema brachyurum, and Meloidogyne incognita on Cotton," in the Journal of Nematology, No. 13, 41-48.

Prof. Lewis, R.W. Miller (Assoc Prof), F.H. Smith (Prof), Mary Zugzda (Ag Sci Assoc III) and David Harshman (Ag Sci Asst I) assisted in the Nematode Identification Short Course taught by Walter Thames (Prof Emeritus, Texas A&M Univ.) here Jan. 5-16.

Prof. Lewis, E.I. Zehr (Prof), Larry L. Bauer (Prof, Ag Econ and Rural Soc), T.V. Wilson (Alumni Prof, Ag Engr) and J.T. Ligon (Prof, Ag Engr) are investigators for a \$97,000 grant from the Science and Education Administration for research on "Contributing Factors to the Control of Peach Tree Short Life in South Carolina."

#### POLITICAL SCIENCE

C.W. Dunn (Prof and Hd) presented a paper, "Reappraising Debate Methodology in Teaching American Government," at the Georgia Political Science Association meeting in Savannah, Ga., Feb. 6-7.

M.A. Morris (Asst Prof) authored a long annotated bibliography as part of the edited materials on the law of the sea for the latest issue of Ocean Development and International Law: The Journal of Marine Affairs. He also has edited materials on "Influence and Innovation in the Law of the Sea: Latin America and Africa," for the same publication and had an article, "Latin American Navies in Comparative Perspective," published in the Spring 1981 issue of Marine Policy.

#### POULTRY SCIENCE

Walter Walker (Assoc Prof) presented a paper on "Husbandry Practices of Pen Reared Bobwhite Quail Necessary to Prevent Common Gamebird Disease Problems"

at the North American Gamebird Association Inc. Short Course in Springfield, Ill., Jan. 13 and was appointed executive secretary of the association.

At the second annual meeting of the Southern Poultry Science Society Jan. 19-20 in Atlanta, Ga., the following papers were presented:

-- J.M. Weber (Grad Stu) presented a paper, "Comparison of Reverse-Protein and Low-Protein Dietary Regimes in the Rearing Period on Growth and Subsequent Performance of Pullets," co-authored by D.V. Maurice (Asst Prof), B.L. Hughes (Assoc Prof) and J.E. Jones (Prof).

-- N.J. Reher (Grad Stu) presented a paper, "Interaction of Dietary Copper and Anticoccidials on Abdominal Fat in Broilers," co-authored by Prof. Maurice, Prof. Jones and K.K. Hale (Assoc Prof).

-- G.P. Birrenkott, Jr. (Asst Prof) presented a paper, "Effect of a Prostaglandin Synthetase Inhibitor on Thermally Stressed Broilers," co-authored by J.C. Oliver (Former Grad Stu).

-- J.E. Whisenhunt (Grad Stu) presented a paper, "The Response of Egg Shell Quality to Dietary Manganese and Lead," co-authored by Prof. Maurice, and was presented the Outstanding Student Paper Award (Nutrition Section).

#### PROFESSIONAL DEVELOPMENT

J.D. Acker (Asst Prof, Acct and Fin) is the lecturer for a one-day program, "Accounting Essentials for Secretaries," to be held here March 3.

H.M. Behery (Prof, Text) is chairman for a two-day conference, "Carpet Manufacturing Technology," here March 10-11.

R.D. Elliott (Assoc Prof, Econ and Dir) presented "Developing A Sophisticated Mailing List/Word Processing System" at the sixth annual meeting of the national Univ. Continuing Education Association's Division of Business, Industry and Labor Jan. 28-30 in Fort Lauderdale, Fla.

#### TEXTILES

F.T. Simon (Sirriner Prof) presented a paper, "Master Lot Plan - an Information System for a Screen Printing Plant," at the AATCC Technical Conference in Boston, Mass., Oct. 15.

Prof. Simon also published two chapters, "Modern illuminants" and "Color Order," in Optical Radiation Measurements, Vol. 2 (Academic Press).

R.H. Barker (Sirriner Prof) has contributed the following:

-- a two-lecture series on "Chemistry of Protein Fibers" to the department of textiles, merchandising and design at the University of Tennessee, Knoxville, Feb. 2-4.

-- service as a member on the National Research Council's Evaluation Panel for the Center for Fire Research of the National Bureau of Standards in Gaithersburg, Md., Feb. 18-19.

-- a lecture, "The Chemistry of Cellulose" at the second Chemical Cellulose Seminar of the Rayon/Acetate Council in Charlotte, N.C., Feb. 27.

-- a seminar, "Flammability of Polymeric Materials," to department of chemical engineering at the University of Southern California at Los Angeles Jan. 9.

-- a seminar, "Textile Flammability" to the department of textiles and clothing of the University of California at Davis Jan. 16.

-- two papers, "The Physical and Thermal Properties of Shell Fabrics for Fire-fighter's Turnout Coats" and "A Series of New Flame Retardants Containing Both Phosphorus and Bromine for Use in Cotton/Polyester Blend Fabrics," with B.C. Childress (Former Grad Stu), at the Sixth International Conference on Fire Safety at Menlo Park, Calif., Jan. 12-15.

-- a seminar, "Fundamentals of Cellulose

Chemistry," to the department of chemistry at Tulsa University in Tulsa, Okla., Jan. 20.

-- two presentations for an American Chemical Society tour Jan. 19-23: "The Chemistry of Textile Flame Retardancy" to the Tulsa (Okla.) Section, the Northeast Oklahoma Section, the Wichita (Kan.) Section; and "An Introduction to the Chemistry of Cellulose" to the Oklahoma Section and the North Central Oklahoma Section.

## ZOOLOGY

J.P. Wourms (Assoc Prof) and Daniel Sponaule (Former Grad Stu) presented a paper, "A Cellular Model of Precocious Origin and Delayed Expression of Fish Egg Envelope Patterns," at the 20th

Annual Meeting of the American Society for Cell Biology Nov. 14-18 at Cincinnati, Ohio.

Edward Ruppert (Asst Prof) gave the Sigma Xi lecture, "Homology Recognition as a Basis for Comparative Biology," at Appalachian State University Sept. 26.

Prof. Ruppert and S.P. Schreiner (Grad Stu) published a paper, "Ultrastructure and Potential Significance of Cerebral Light-Refracting Bodies of Stenostomum virginianum (Turbellaria, Catenulida)," in Zoomorphology, 96 (1980), 21-31.

Karen Carle (Grad Stu) presented a paper, "Selective Predation on Meiofauna by the Darter Goby," at the Fifth International Symposium on Meiofauna Aug. 4 in Columbia.

## Calendar of Campus Events

### March 2-8

- 2-3 -- Workshop: "Supervisory and Foremanship Skills." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 2-6 -- Art Exhibition: "Travel Display." Sponsored by University Union, Union Gallery, loggia, 9 a.m. - 5 p.m., free.
- 2-16 -- Art Exhibition: Recent sculpture by Edward Mayer, associate professor of art at Ohio University. Mayer's unusual approach to sculpture relies on staking 4-foot lengths of lath wood into self-enclosed structures, with the wood relying on its own weight to stay in place. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to public, free.
- 2 -- Workshop: "Supervisory and Foremanship Skills." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 2 -- Tennis: Penn State (Men). Sloan Tennis Center, 2 p.m.
- 3 -- Music: John Noel Roberts in solo piano recital. Sponsored by music department Chamber Music Series, Daniel Hall Auditorium, 8 p.m., free.
- 4 -- Film: "Colored Nabeshima Ware," part of Japanese Film Series II. Sponsored by department of architectural studies, Lee Hall Auditorium, 3:45-4:45 p.m., free. Open to public, call 656-3081 for more information.



## Calendar of Campus Events (Cont.)

- 4 -- Lecture: Dr. J. Allen Hynek, director of Center for UFO Studies. Hynek served as astronomical consultant to the U.S. Air Force in its studies of UFO sightings reported to Air Force bases. His latest book, "Hynek UFO Report," and his work as technical adviser for the films "Close Encounters" and "Close Encounters Part II" have made him a current favorite as a lecturer. Sponsored by Student Government Speakers Bureau, Brackett Hall Auditorium, 7 p.m., free.
- 4 -- Film: "President's Analyst," part of Film as Social Criticism Series. Sponsored by departments of English and sociology, Lee Hall Auditorium, 7:30 p.m., free.
- 4 -- Conference: South Carolina State Highway Conference. Call Continuing Engineering Education (656-3308) for more information.
- 4 -- Workshop: "Effective Customer Relations." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 4 -- Meet the Administration. Sponsored by University Union and Student Government, Palmetto Ballroom, 12-1:30 p.m., bring your lunch.
- 4 -- Short Course: "Wine Tasting" begins. Sponsored by University Union, details and sign up at Union Information Desk.
- 5-7 -- Big Screen TV: All ACC Tournament games shown on big screen in Edgar's. Sponsored by University Union, University I.D. and proof of age required, free.
- 5 -- Music: University Concert Band's Winter Concert. Sponsored by music department, Littlejohn Coliseum, 8 p.m., free.
- 5 -- Film: "McCabe and Mrs. Miller." Sponsored by Five Directions Cinema, Lee Hall Auditorium, 7:30 p.m., \$3 admission, series subscriptions available, call 656-3272, 3421 or 3437 for more information.
- 5 -- Live Entertainment: "Zoe." Sponsored by University Union, The Gutter, 8 p.m., 50¢ donation requested.
- 6 -- Baseball: Western Carolina, 3 p.m.
- 7, 8 -- Baseball: Appalachian State, 2 p.m. each day.
- 8 -- Music: Eaton-Freeman Piano Competition. Sponsored by music department, Daniel Hall Auditorium, 3 p.m., free.
- 8 -- Free Flick: "The Boatniks." Sponsored by University Union, YMCA Theatre, 8 p.m.



# WEPR

FM 90, an educational radio station with studios in the Clemson House  
March 1981

## WEEKDAY SCHEDULE

| Time        | Monday                            | Tuesday                       | Wednesday                    | Thursday                    | Friday                 |
|-------------|-----------------------------------|-------------------------------|------------------------------|-----------------------------|------------------------|
| 6-8         |                                   | Morning Edition*              |                              |                             |                        |
| 8-8:30      |                                   | Radio Reader                  |                              |                             |                        |
| 8:30-4      |                                   | Instructional Radio           |                              |                             |                        |
| 4-4:30      | Old and New<br>Worlds of<br>Words | Conversations<br>with Alice   | High School<br>Quiz          | Apple a<br>Day              | Leaders &<br>Trailers* |
| 4:30-5      |                                   | Drive Time*                   |                              |                             |                        |
| 5-6:30      |                                   | All Things Considered         |                              |                             |                        |
| 6:30-7      | Options in Education              |                               | Horizons                     | BBC Science                 | Communique             |
| 7-7:30      |                                   | Spider's Web                  |                              |                             |                        |
| 7:30-8      | Star Wars                         | Earplay Weekday Theatre       |                              |                             | Hitchhiker's<br>Guide  |
| 8-9         | Grand Piano                       | International<br>Concert Hall | NY Phil-<br>harmonic         | Los Angeles<br>Philharmonic | Little Night<br>Music* |
| 9-10        |                                   | Latin<br>Beat                 |                              |                             |                        |
| 10-10:30    | Jazz<br>Revisited                 |                               | The<br>Satellite<br>Symphony | Majors and<br>Minors*       | Performance*           |
| 10:30-11    | The Essence<br>of Jazz            | Jazzspot                      |                              |                             |                        |
| 11-11:30    |                                   | Music<br>from Germany         |                              |                             |                        |
| 11:30-12:30 | 1st Hearing                       | In Recital                    | BBC Promenade<br>Concert     | Vocal Scene                 | Record<br>Shelf        |

## WEEKEND SCHEDULE

| Time     | Saturday                     | Sunday                       |
|----------|------------------------------|------------------------------|
| 6-11     | Mosaics                      |                              |
| 11-12    | Vivat Rex                    | Daybreak                     |
| 12-12:30 | NPR Journal                  |                              |
| 12:30-1  |                              |                              |
| 1-1:30   | Fitzgerald                   | NPR Recital<br>Hall          |
| 1:30-2   |                              |                              |
| 2-2:30   | I Hear<br>America*           |                              |
| 2:30-3   |                              | Plots &<br>Prologues*        |
| 3-5      | Folk<br>Festival USA         | Chicago<br>Symphony          |
| 5-6      | All Things<br>Considered     |                              |
| 6-7      | Prairie<br>Home<br>Companion | Fitzgerald                   |
| 7-8      |                              | Remember When                |
| 8-9:30   | Jazz<br>Alive                | Indianapolis<br>Symphony     |
| 9:30-10  |                              |                              |
| 10-11    | Stardust<br>Ballroom         | NPR<br>Playhouse             |
| 11-12:30 |                              | Majors and<br>Minors Encores |

\* Produced by the University station of WEPR

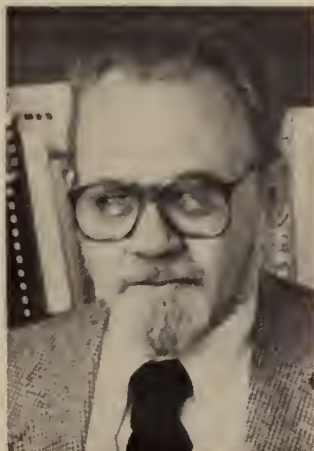
\*\* Funded by contributions to the University Fund for Radio



MAR 3 1981



McCormac



Lee

## ALUMNI PROFESSORSHIPS AWARDED TO PETER LEE AND JACK MCCORMAC

Alumni Professorships have been awarded to architecture professor Peter R. Lee and civil engineering professor Jack McCormac, according to Provost David Maxwell.

Criteria for appointment to an Alumni Professorship are demonstrated excellence in the teaching of undergraduates and holding the rank of full professor.

Alumni Professorship appointments are valid as long as the recipient remains an active teacher at the University, or until the professor assumes an administrative position.

Lee joined the faculty in 1968 following teaching stints at Boston Architectural Center and the University of Minnesota's School of Architecture.

He holds a bachelor's degree in architecture from the University of Minnesota and a Master of Architecture degree from Massachusetts Institute of Technology.

Lee served as co-director of the College of Architecture's Center for Building Research and Urban Studies in Genoa, Italy. He has also served on the college's Innovative Teaching Committee. He currently is a member of the Graduate Curriculum Committee and the Commission on Graduate Studies and Research.

McCormac has been here since 1949, except for one four-year hiatus in industry in the early 1950s.

He is the world's most-widely-sold civil engineering author. His textbooks, including "Structural Analysis," "Structural Steel Design," and "Concrete Design," have sold more than 330,000 copies and are used in more than 200 schools worldwide. Several have been translated into Spanish, Chinese and Yugoslavian.

McCormac is a 1948 graduate of The Citadel and received a master's degree in civil engineering in 1949 from MIT.

He received the 1976 Outstanding Educator Award from the Piedmont Chapter of the S.C. Society of Professional Engineers and, according to civil engineering department head Herb Busching, he consistently ranks at the top in student evaluations of faculty.

Ten professors now hold Alumni Professorships. The latest appointments fill spots vacated by retiring Alumni Professors J. Harvey Hobson (chemistry) and James N. Thurston (electrical engineering).

Alumni professors are selected by the academic deans of the University in consultation with academic administrators.

## **FIVE STUDENTS RECEIVE R.F. POOLE SCHOLARSHIPS**

Five top high school students, three of them South Carolinians, have been awarded R.F. Poole Alumni Scholarships.

The five also carry the title of Alumni Presidential Scholar, given to the top members of the entering freshman class.

The students are:

-- Lawrence Brian Afrin of Hanahan, a 1979 Governor's Scholar and a district chairman of the National Honor Society. He will major in pre-med.

-- Angela Michele Bush of Beaufort, a member of the National Honor Society, the Society of Distinguished American High School Students and Who's Who Among American High School Students. She will major in engineering.

-- Hugh T. Garner of Poquoson, Va., vice president of his National Honor Society chapter and chosen for Boy's State of Virginia. He will be a chemical engineering major.

-- Kevin Craig Redmon of Stow, Ohio, who played three varsity sports while gathering academic honors including a National Merit Scholarship. He will major in computer engineering.

-- Karen Leigh Watson of Spartanburg, a 1980 Governor's Scholar, a National Merit semifinalist and member of the National Honor Society. She will major in biology.

Among the most prestigious of the University's undergraduate scholarships, the \$8000 Poole awards are supported by the Alumni Association through the Alumni Loyalty Fund.

They are given annually in honor of the University's seventh president, the late Robert F. Poole, who served from 1940 to 1958.

## **SUSAN MCWHORTER PROMOTED IN PERSONNEL DIVISION**

After nine years with the personnel division, Susan McWhorter has been named classification and compensation manager.

"She was highly recommended by administrative and professional people throughout the campus," said Ray Thompson, personnel director.

Having served the past six months as acting director of classification and compensation, she "convinced all that she could do an outstanding job," said Thompson.

McWhorter's job is no small task. She is responsible for the paychecks of 8833 employees.

And that's only one aspect of her work.

"Any change in an employee's record -- address, telephone number, marital [tax] status, educational level, etc. -- is monitored by our office," she said.

Also, she keeps track of reclassifications, promotions, terminations, hirings, performance appraisals, cost-of-living adjustments, and account-number changes.

If you have questions about any of those matters, Susan McWhorter is the person to call (ext. 2426).

## **LEGISLATURE CHOOSES THREE BOARD MEMBERS**

The General Assembly last Wednesday re-elected two incumbents and selected a newcomer for the Board of Trustees.

Re-elected were William N. Geiger of Columbia and D. Leslie Tindal of Pinewood. New to the board is Sumter gynecologist John J. Britton.

They were elected for four-year terms to begin in 1982.

Chosen to succeed Lewis Holmes, a trus-



tee for seven years, Britton is a 1958 Clemson graduate and has been active in alumni programs. He and his wife Connie have four children, two of whom attend the University.

Geiger is a partner in the architectural firm of Geiger/McElveen/Kennedy. He is a past president of the Clemson Architectural Foundation and has been a Trustee since 1978.

Tindal runs a 2,600-acre farm in Clarendon County and operates a farm equipment business. In 1971 he was recognized by Progressive Farmer magazine for his contributions to agriculture. He has been a Board member since 1974.

#### CONFERENCE TO ADDRESS PROBLEMS OF AGING

A conference on the problems of aging is being planned for early September by the University.

Conference coordinator Leonard Greenspoon says four speakers with international reputations for accomplishments in the arts, literature or public service are being invited to participate.

He says the speakers, in a series of

informal talks, will reflect on how their own attitudes toward growing older have changed over the years.

"We hope that each of the speakers will strike a highly personal note," says Greenspoon, who is an assistant professor of history.

The general theme for the conference will be "Perspectives on Aging."

Announcement of the speakers and conference dates will be made once details are confirmed.

The conference will be funded in part through a grant of \$2,500 recently received by the University from the Sperry and Hutchinson Company, the firm which produces S&H Green Stamps.

If you wish to make suggestions concerning the conference, contact Greenspoon (ext. 3153).

#### OUTSTANDING STUDENTS SOUGHT FOR CONFERENCE AT YALE

If you know an outstanding student interested in technology and society, you might tell him or her about the International Student Pugwash Conference.



**S&H PRESENTS GRANT --**  
Left to right: Clemson graduate David Foster of S&H Promotional Services presents a check for \$2,500 to Provost David Maxwell and assistant professor of history Leonard Greenspoon to support a conference, "Perspectives on Aging."



Scheduled to convene at Yale University June 15-21, this meeting will include five workshops on various moral dilemmas in technology and democracy.

Student Pugwash is patterned after the International Pugwash Conferences begun in 1957 by Albert Einstein and Bertrand Russell.

The student version brings many participants from the senior meetings into direct contact with academically superior students.

At Yale, students, scientists, and world political and social leaders will discuss five contemporary concerns: biomedical technology and health care; weapons and world peace; regulation of science and technology; energy, the economy and the environment; and computers and society.

Speakers at the last conference included California's Governor Jerry Brown, presidential science adviser George Kistiakowsky and scientist Jonas Salk. This year, U.S. Rep. Morris Udall, diplomat Herbert York and former Pentagon analyst Daniel Ellsberg will speak.

Graduate and undergraduate students applying for the conference are required to submit a detailed outline for a possible paper by March 15.

Hundreds of applications are expected, but only 75 students will be chosen to participate in the conference.

Further information on the application process is available from Jeff Leifer, Greg Gross or Matthew Nemerson, Box 2036, Yale Station, Yale University, New

Haven, Conn. 06520 (203/436-3445).

#### INVESTIGATORS REMINDED OF MARCH 15 DEADLINE

March 15 is the deadline for submission of applications for Biomedical Research Support Grant funding for biomedical or behavioral, health related, pilot research projects.

The University expects to receive \$30,000 in BRSG funds this spring from the National Institutes of Health and has established a committee to determine how the funds will be allocated.

This committee has decided the funds will be used to support pilot, biomedical or behavioral research by young investigators (generally defined as not more than five years past the Ph.D.).

Applications -- using Public Health Service 398 forms and format -- should be submitted to the Office of University Research (E-102 Martin Hall). Proposals should be completed for peer review, and budgets should contain only items requested from BRSG.

The funds will be awarded not later than April 15 on the basis of competitive peer review. The committee anticipates making five or six awards.

Applications are being accepted from young investigators, faculty who joined the University after Aug. 15, 1980, and mature investigators reorienting the directions of their research.

Questions concerning BRSG, the application process, or applicant eligibility should be directed to the Office of University Research (ext. 2375).

## Calendar of Campus Events

March 9-15

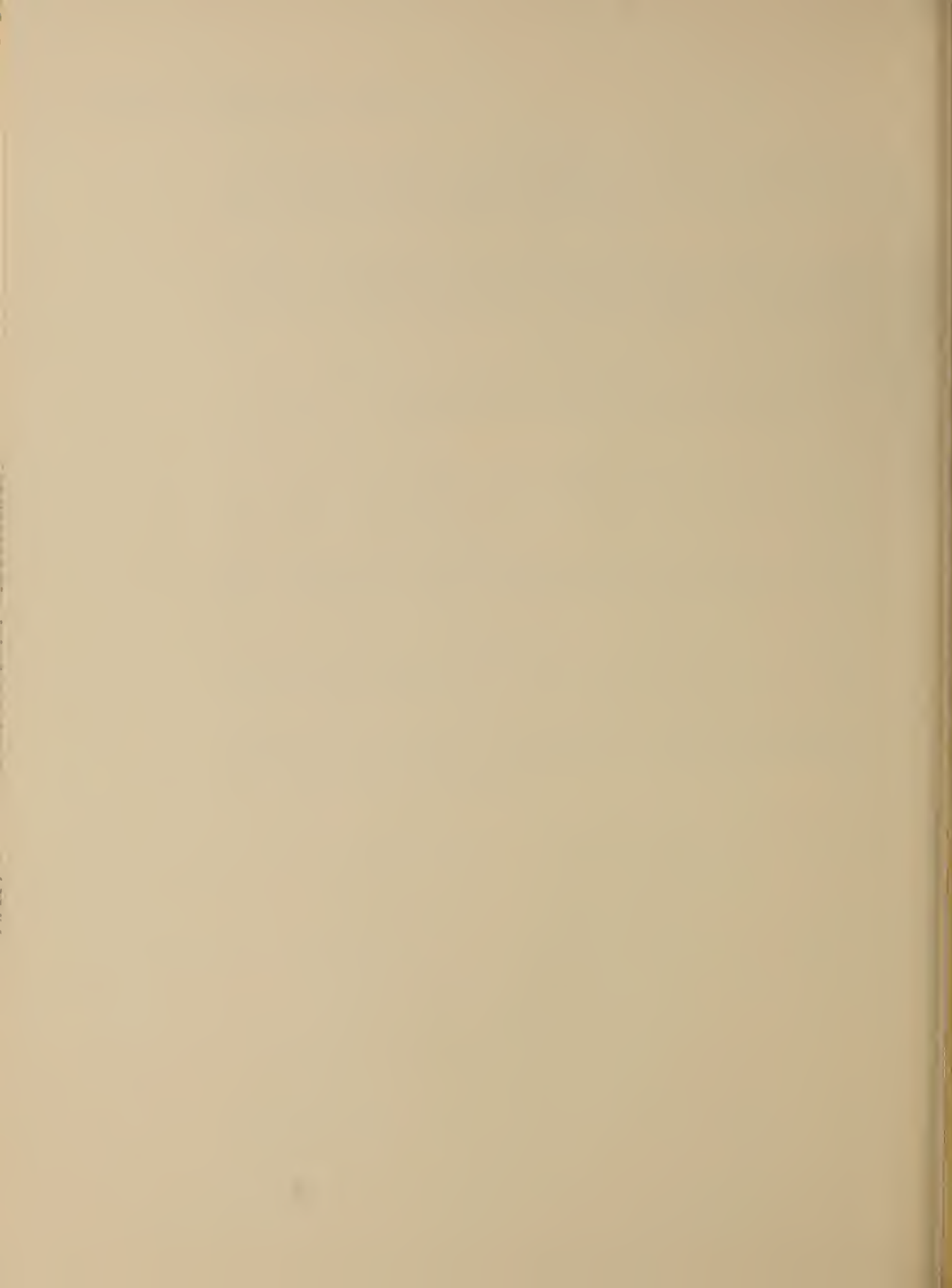
- 9, 11 -- Baseball: Howard, 3 p.m.
- 9-15 -- Videotape: Recording session with Jackson Browne and Billy Joel. Sponsored by University Union, loggia, shown on request.
- 10-12 -- Workshop: "Microprocessors." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 10-12 -- Workshop: "Today's Carpet Technology from Start to Finish." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 10, 11 -- Tennis: Howard, 3 p.m.
- 10 -- German Play. Given by students. Sponsored by department of languages, Daniel Auditorium, 8 p.m., open to public, free.
- 11 -- English Hour Lecture: title to be announced, Dr. Elizabeth D. Carney. 108 Strode Tower, 8-9 p.m., open to public, free, call 656-3151 for more information.
- 11 -- Lecture: "Quality and Ideology in Architecture," John Morris Dixon, editor of Progressive Architecture magazine. Sponsored by Clemson Architectural Foundation, 8 p.m., Lee Hall Auditorium, open to public, free.
- 11 -- Film: "Kites of Japan." Part of Japanese Film Series II, sponsored by department of architectural studies, 3:45-4:45 p.m., Lee Hall Auditorium, free, call 656-3081 for more information.
- 11 -- Film: "Battle of Algiers," a pseudo-documentary propaganda film of the Algerian revolt against the French from 1954-1962. Part of Film as Social Criticism Series, sponsored by departments of English and sociology, 7:30 p.m., Lee Hall Auditorium, free.
- 11 -- Workshop: "Women in Management." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 11 -- Tennis: Old Dominion (men), Sloan Tennis Center, 2 p.m.
- 12 -- Films: "The Twentieth Century," starring Carol Lombard, and "Bringing Up Baby," directed by Howard Hawks and starring Katherine Hepburn and Cary Grant. First film starts 7 p.m., second begins 9 p.m., Lee Hall Auditorium, presented by Five Directions Cinema, \$3 admission charge, series subscriptions available, call 656-3272, 3421, or 3437 for information.

## Calendar of Campus Events (Cont.)

- 12 -- Lecture: "Atomic Physics in Magnetically Confined Fusion Plasma," Dr. F. W. Meyer, Oak Ridge National Laboratory. Part of Energy Colloquia Series, sponsored by department of physics and astronomy, 4 p.m., room 101 Kinard Laboratory, open to public, free.
- 12 -- Workshop: "Assessment of the Thorax and Abdomen," conducted by Ann Rawlings, MSN, RN, CCRN, visiting instructor, continuing education department, College of Nursing. Enrollment limited to registered nurses. Pre-registration required, call 656-3079 for more information.
- 12 -- Workshop: "Assertiveness Training for Women." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 12, 13 -- Baseball: Duke, 3 p.m.
- 12 -- Tennis: Mississippi (men), Sloan Tennis Center, 2 p.m.
- 12 -- Gutter coffeehouse closed.
- 12 -- Meet the Administration. 12-1:30 p.m., Palmetto Ballroom. Bring your lunch. Sponsored by University Union and Student Government.
- 13 -- Spring break begins after last class.
- 13 -- Last day to drop a subject or withdraw from the University without receiving final grades.
- 13 -- Workshop: "Effective Expression for Women." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 15 -- Union spring break cruise departs.







# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



March 10, 1981  
Vol. 20 No. 18



Tinsley

Taylor

Sweeney

Mauldin

Wingo

## STAFF MEMBERS CITED FOR SERVICE IN COOPERATIVE EXTENSION PROGRAM

Five staff members with the Cooperative Extension Service have received personal citations for their roles in Extension work.

Superior Performance Awards have been given to W.A. Tinsley, a professor of agricultural economics; Julia Taylor, a professor of home economics; and James N. Sweeney, an associate county agent in Chesterfield.

Outstanding Service Awards have been conferred on Frances Mauldin, a secretary in the Anderson County Extension office; and Nona Wingo, a staff member in the Spartanburg Extension program.

Individuals were nominated and selected by their peers. Each received \$100 and a plaque.

Announcing the citations, Extension director W.T. O'Dell said the program was established to encourage and recognize staff members for their "dedication, interest, enthusiasm and attitude in successfully accomplishing the mis-

sion" of Extension programs.

Tinsley was honored for developing effective mini-computer programs to help individual farmers keep up with accelerating management demands and for pioneering an Extension information outlet in a Columbia shopping mall.

He also was cited for designing and helping to implement a family budget program for consumers and for superior work in estate planning and conducting annual small business-farm tax courses.

Taylor, now retired as a home furnishings specialist, was recognized for preparation and presentation of outstanding programs on home furnishings for clientele groups within the state and for special service.

She was chairman of the first University affirmative action committee, headed a statewide in-service training committee, and served as president of both the Extension Senate and Specialists' Association.

Sweeney was cited for having increased participation in 4-H youth programs,

enlisting volunteer leaders, conducting community garden work, and initiating a successful vegetable production program for limited-resource farmers.

During the 10 years he has been in Chesterfield, the county has had 12 state 4-H winners and two winning state 4-H teams.

Mauldin, who supervises four secretaries and coordinates work for 32 staff members in the Anderson Extension program, was honored for maintaining orderly operations, providing information or guidance for people seeking help through Extension, and "constantly trying to improve the image of the office."

Wingo, a group leader in youth activities in Spartanburg County under Extension's Expanded Food and Nutrition Education Program, is responsible for planning and conducting educational activities to improve nutrition standards and practices.

Her citation reads: "She goes out of her way to meet the needs and interests of volunteers and youth and tries new methods to increase the potential of the program."

#### PRIVATE GIVING SETS NEW RECORDS IN 1980

They've done it again.

Alumni and friends of the University have set new records in providing private support for Clemson.

During 1980, the University received more than \$2.6 million in contributions and gifts from individuals, companies, foundations, and professional and trade organizations.

That figure tops 1979's record-setting \$2.5 million and includes \$527,383 in unrestricted giving through the Alumni Loyalty Fund.

"The total in unrestricted giving," says George Moore, executive officer for alumni relations and resources develop-

ment, "is one of the most important aspects of our private support in 1980.

"When the University receives an unrestricted gift, that contribution can be applied where it is most needed.

"An unrestricted gift is truly a gift to Clemson's entire program of excellence."

Another significant figure in the 1980 financial report is 8,469 -- the number of alumni who contributed during the year. That represents an increase of 130 over the previous record set in 1979.

Altogether, contributions to the Loyalty Fund -- which includes alumni gifts (restricted and unrestricted), corporate matching gifts and the Parents Fund -- passed the million-dollar mark with a total of \$1,022,230.

Gifts from business and industry totaled \$460,399 for the year, while non-alumni faculty and staff members gave \$13,678.

Foundations contributed \$924,044; professional and trade organizations \$87,399.

Remaining categories (gifts-in-kind and matured deferred gifts and trusts, for example) accounted for \$130,668.

Contributions in almost every area of giving were up from 1979.

Support from foundations, for instance, jumped 38 percent (by more than \$257,000). Professional and trade organizations gave \$35,400 more in 1980 than in 1979, a 68 percent increase.

#### Where do all the dollars go?

Unrestricted gifts to the 1980 Loyalty Fund will be used to support University programs ranging from scholarships to professorships to the Performing Artist Series in the '81-'82 academic year.

New programs to be funded include the Clemson University Alumni Scholarships for gifted minority students (\$9,000),



the Alumni Award for Outstanding Research (\$1,000) and the Alumni Award for Distinguished Public Service (\$1,000).

Regarding these new programs, Moore said, "The new scholarship program has been in the works for some time now, and I think it is further evidence of the tremendous interest our alumni have in encouraging and aiding superior students to come to Clemson.

"And as for the new awards for outstanding research and public service, those have been established in recognition of the tremendous job Clemson people are doing in those areas.

"The basis for the awards is very similar to the idea behind the Alumni Master Teacher Award given each year. Just as the alumni want to recognize the top-quality teachers here, so too they want to show appreciation for the University's distinguished researchers and public service personnel."

Other programs to be funded with private support include the R.F. Poole Scholarships (\$40,000), Alumni Presidential Scholarships (\$29,000, including the \$9,000 for the new minority scholarships), Alumni Visiting Professorships (\$40,000) and Alumni Professorships (\$30,000).

The University Union's Performing Artist Series will receive \$3,000, Student Government \$3,500, and the Student Alumni Council \$3,500.

The March-April issue of the Clemson University News will contain a complete list of programs to be funded with private support next year.

#### PRESIDENT'S COUNCIL INVITES THURMOND TO PLACE PAPERS HERE

The President's Council Feb. 27 invited U.S. Sen. Strom Thurmond to make his official papers available to the University "so that they may be preserved and protected for posterity."

By unanimous vote, the Council endorsed

the concept of seeking the papers and authorized a committee to write an appropriate resolution to present to the senior senator from South Carolina.

During its regular monthly meeting in the Senate Chambers of the University Union complex, the Council also heard reports from administration officials and commission chairmen.

Vice President for Business and Finance Melvin Barnette told Council members that the House Ways and Means Committee has completed its version of the state's 1981-82 appropriations bill.

He said the committee's recommendations include a \$1.9 million "effective cut" in Clemson's education and general personnel budget for next year.

The University's public service activities personnel funding faces a \$1.4 million cut compared with the current year's budget.

"We will get more dollars," he said, "but we'll have to pay out more." Thus, in effect, the University will have less personnel money next year than this year.

To help balance the appropriations bill, Barnette said, the Ways and Means Committee adopted a 2.5 percent, across-the-board, cut in agencies' personnel budgets.

This new 2.5 percent cut is in addition to the 7 percent personnel funding slash recommended by the State Budget and Control Board.

Barnette said the committee's reasoning for the new cut is that, because of retirements, terminations and similar actions, no agency has all its personnel positions filled at one time.

The committee assumed, therefore, that every agency can absorb a 2.5 percent "vacancy factor" cut in personnel funding.

He said that logic does not hold true



for Clemson because the University allows for vacancies when calculating its personnel funding needs.

In other words, Clemson does not have an additional 2.5 percent "vacancy factor" because the University's budget request already includes allowances for vacancies during the year, he said.

The Ways and Means Committee also has proposed that the next cost-of-living increase for state employees be delayed by four pay periods (eight weeks), Barnette said.

The increase would still be 7 percent, he said, but the hike would not be implemented at the beginning of the next fiscal year (July 1).

Both Barnette and President Bill Atchley said the Ways and Means Committee's actions are not "the final word" on next year's budget.

The appropriations bill now goes to the full House of Representatives for consideration. From there, the proposal will be sent to the Senate.

#### Maxwell discusses desegregation plan

Provost Dave Maxwell briefed the Council on the status of the state's response to the U.S. Department of Education's findings that more must be done to desegregate South Carolina's public colleges and universities.

He said the preliminary plan sets certain minority enrollment goals for each institution to reach by 1985.

The goals, he said, would be annual, with each institution being expected to increase its minority enrollment gradually, but significantly.

"Clemson had 48 black students in the 1979 freshman class," he said. "By 1985, we'll be expected to have 265."

Maxwell said achieving the goals will require "a fantastic recruiting effort" by Clemson.

And, he said, the effort will be expensive and will place "a sizable strain" on the University's budget if the state does not provide extra money to cover the costs of the program.

Similarly, the University will have to take steps to increase its number of minority faculty and staff members, he said.

While fulfilling the requirements of the plan will not be easy, he said, "if we insist on maintaining our tradition of excellence, we can do it."

(Since the President's Council meeting, the "blue ribbon" committee working on the plan has submitted a proposal to the Commission on Higher Education. The "Newsletter" will report further developments as they happen.)

#### Commission chairmen report

The chairmen of various commissions working under the Council reported on organizational meetings held since the Council's January session.

Reports were made by Vice President for Student Affairs Walter Cox, chairman of the Commission on Student Affairs; Assistant to the Provost Jerry Reel, chairman of the Commission on Undergraduate Studies; Dean of Graduate Studies Arnold Schwartz, chairman of the Commission on Graduate Studies and Research; and Faculty Senate President Stassen Thompson, chairman of the Commission on Faculty Affairs.

Each chairman said his commission had met and was studying how best to address the issues within its jurisdiction.

#### HOLIDAY SCHEDULE SET

The spring holiday schedule for campus services has been set, says John Newton, director of auxiliary services.

Both dining halls will close after dinner March 13. Harcombe Commons will reopen for breakfast March 23, and Schilletter Dining Hall will reopen

March 22 for dinner.

Duplicating services and the University mailroom will close March 18 at 4:30 p.m. and will resume service March 23 at 8 a.m.

Laundry and dry cleaning services will close at 5 p.m. March 13, and will re-open at 8 a.m. March 23.

The University switchboard will close March 18 at 8 p.m. and will resume service at 7:30 a.m. March 23.

During this holiday period, says Newton, official long distance calls within South Carolina may be made from the University police station, where a WATS line will be available, or by direct dialing at prevailing Southern Bell rates.

#### INVESTIGATORS REMINDED OF MARCH 15 DEADLINE

March 15 is the deadline for submission of applications for Biomedical Research Support Grant funding for biomedical or behavioral, health related, pilot research projects.

The University expects to receive

\$30,000 in BRSG funds this spring from the National Institutes of Health and has established a committee to determine how the funds will be allocated.

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Questions concerning BRSG, the application process, or applicant eligibility should be directed to the Office of University Research (ext. 2375).

## Calendar of Campus Events

### March 16-23

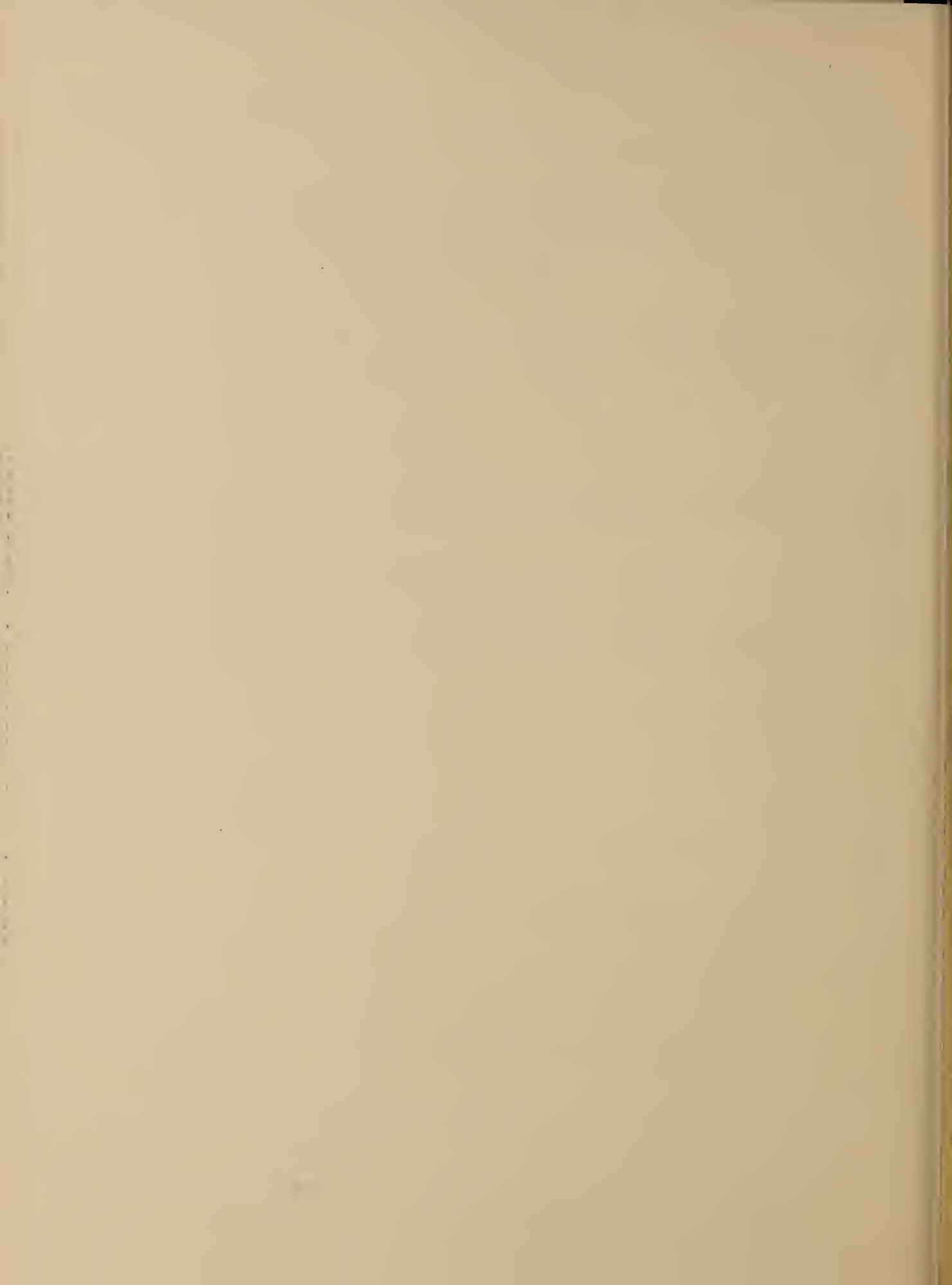
- 16 -- Workshop: "Effective Public Speaking." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 16-17 -- Workshop: "Operations and Design of Activated Sludge Systems." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 18 -- Japanese Film Series II: "Yamanaka Lacquerware." Sponsored by architectural studies department, Lee Hall Auditorium, 3:45-4:45 p.m., open to public, no admission charge.

## Calendar of Campus Events (Cont.)

- 20-21 -- Tennis: Clemson Spring Tennis Classic (men), Sloan Tennis Center.
- 23 -- Hunter Honors Lecture: "Perspectives on Biomedical Research in the Present Era," Albert B. Sabin, distinguished research professor of biomedicine at the Medical University of South Carolina in Charleston. Sponsored by bioengineering program, 3:30 p.m., Lee Hall Auditorium, open to public, no admission charge.
- 23 -- Concert Series: New England Conservatory Chorus, conducted by Lorna Cooke de Varon. Sponsored by department of music, Littlejohn Coliseum, 8 p.m., admission by student use card, season ticket, or individual tickets on sale at gate 5.
- 23 -- Classes resume.
- 23-24 -- Baseball: Ohio State, 3 p.m.
- 23-24 -- Workshop: "Practical Operating Budgeting and Cost Analysis." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 23 -- Tennis: Florida State (men), Sloan Tennis Center, 2 p.m.
- 23-29 -- Videotape: "NFL Funnies" and "Son of NFL Football Follies." Sponsored by University Union, loggia, shown on request.









March 24, 1981  
Vol. 20 No. 19

MAR 25 1981

## CONFERENCE EXPLORES LINK BETWEEN SPORT AND SOCIETY

An Olympic gold medalist and a Tampa Bay linebacker who's earning a Ph.D. in philosophy join a CBS sports commentator and the editor of a national sports magazine on campus this week for the Conference on Sport and Society.

By merging athletics and scholarship, the conference aims to promote understanding of the role of sport and recreation in society, says history professor Joe Arbena, conference director.

The conference begins tomorrow (March 25) with a keynote address by John Walsh, editor of Inside Sports magazine. He will speak on "Sports Journalism: Phases and Stages."

Other public addresses will include talks by sports commentator Heywood Hale Broun Thursday (March 26) and Olympic gold medalist Wilma Rudolph Friday (March 27). Walsh, Broun and Rudolph each will speak at 7 p.m. in Daniel Hall Auditorium.

Walsh joined Newsweek Inc. in 1979 to head the company's first venture into sports magazine publishing. He has been managing editor of Rolling Stone magazine and in 1976 was story editor for a public TV documentary on the Super Bowl.

Broun will recount his years as a sports journalist and commentator by addressing "The Meaning of Sport in American Society: A Personal Viewpoint." His latest publication is "Tumultuous Merriment," a book based on his experiences as a sports journalist in the United States and around the world.

Rudolph will speak on "Reflections on My

Life." Winner of three gold medals in the 1960 Rome Olympics, she was named U.S. Amateur Athlete of the Year in 1962. She now heads Wilma Unlimited, her one-woman public relations firm.

Other sessions will include discussions by sports studies scholars in geography, psychology, philosophy, history and sociology. In one session Dewey Selmon, a linebacker with the Tampa Bay Buccaneers, will comment on a position paper read by sports philosopher Paul Weiss.

Selmon, one of the famed Selmon brothers from the University of Oklahoma, is a Ph.D. candidate in philosophy at his alma mater.

A companion sports art exhibit of sculpture, painting and photography will be in the Alumni Center during the three-day conference.

The conference is being sponsored jointly by the athletic department and the College of Liberal Arts.

## ENGLISH INSTRUCTOR DOUBLES AS SINGER IN "NEW WAVE" BAND

As a student, did you ever wonder what your teacher did when not in class?

Students of English instructor Laura Littlefield get quite a surprise when they learn of her non-academic avocation. She's a singer in a "new wave" rock band, the Idols.

Actually, says Littlefield, she gets more comments from friends and colleagues than from students.

"I think students are sometimes afraid to say things," she says. "They still only think of me as a teacher."



Littlefield

Littlefield got her big break when some of her friends persuaded her to sing during an "amateur night" at Edgar's.

One of those friends, an Idols member, liked what he heard and invited her to sing with the group. She accepted, she says, because she was impressed with the band's energetic, original music.

New wave, Littlefield says, is a resurgence of the musical style of the early 1960s. Popular in cities like New York and Atlanta, "new wave is big everywhere except here," she says.

"I am more into jazz and folk music," says Littlefield, "but the high energy of new wave is a good tension release for me."

The extra income performing brings her way is another attraction, she says.

Also, she credits singing with the band with helping her overcome stage fright. "I still get nervous standing before my classes," she says.

"Being a teacher is what I want to do and enjoy most, but I need something to help me keep in touch with more of the outside world," says Littlefield, who began singing as a child at church and weddings.

She says performing with the Idols and being exposed to new wave are valuable experiences for her because they have caused her to think more creatively.

And that, she says, may help her pursue yet another interest: writing poetry.

#### REFUNDS MAILED TO EMPLOYEES ON PRUDENTIAL INSURANCE PLAN

More than 1,400 employees in the University group insurance program underwritten by Prudential Insurance Company of America were mailed refunds March 9.

The average refund was about \$20, says Ron Herrin, director of payrolls and employee benefits programs. "But the amount varies in each individual case," he says.

The refunds were recommended by the Group Insurance Committee, which Herrin chairs, and approved by President Bill Atchley. They are being paid from reserve funds in the insurance plan.

The Prudential plan became available to employees May 1, 1978.

The University handles the administration of the plan, providing monthly premium deductions and immediate death claim payments.

Under an agreement with Prudential, premiums paid go into a general fund from which claims and expenses are taken. Any surplus in this fund at the end of each policy year may be used by the participating group in one of three ways.

All of the excess can be refunded to participants, or the excess can be used "to stabilize" premiums -- held in reserve to keep premiums from going up in the event claims and expenses during a year are more than the amount of money paid into the program during that year.

The third option is a combination of the first two and is the one the University chose. Part of the excess has been refunded, and the rest is being kept in reserve.

Herrin says eventually the reserve fund may grow large enough to allow for addi-

tional coverage for participants without having to increase premiums.

This year the reserve fund was approximately \$130,500. Of that, \$29,734 has been refunded to employees in the plan.

Only participants currently employed by the University who enrolled in the program between May 1, 1978, and April 30, 1980, were eligible for the refund.

If you meet those qualifications and have not received your refund, you should call Herrin's office (ext. 2000).

Herrin notes that the Prudential plan is one of the optional insurance programs offered by the University and should not be confused with the standard state insurance coverage provided employees.

#### GOOD HEALTH APPEAL SOLICITS CONTRIBUTIONS FOR 13 GROUPS

The third annual Good Health Appeal is under way, says Bill Pace, assistant

dean of student life and campus chairman for the campaign.

Pace says the campaign will help secure funding for 13 health organizations.

By combining employee-oriented solicitation for these groups in one appeal, he says, duplication of effort is reduced, and employees are able to make contributions to the organizations of their choice more conveniently.

All contributions are tax deductible. You may designate your gift for specific agencies or have it divided equally among all the agencies. Money collected helps support research, health education and community service.

"People are being contacted by 'key leaders' in each department this week [March 23-27]," says Pace. These individuals are distributing information on the 13 participating organizations and on various ways of making a contribution (cash, check, payroll deduction).

## Calendar of Campus Events

### March 30-April 5

- 30 -- Speech Night Finals. Sponsored by the Clemson Forensic Union, Calhoun Forensic Society, and department of English; Daniel Auditorium, 7:30-8:30 p.m., open to public, free.
- 30 -- German Film. Sponsored by department of Languages, 315 Daniel Hall, open to public, free.
- 30,4/1,4 -- Workshop: "Cardiopulmonary Resuscitation (CPR)," conducted by Gail Kiser-Brown. Sponsored by continuing education department, College of Nursing, enrollment open to all members of the community, preregistration required, call 656-3079 for more information.
- 30-4/1 -- Film: "Private Benjamin." Sponsored by University Union, YMCA Theater, 7 & 9 p.m., \$1 admission charge.
- 30-4/5 -- Videotape: "Al Stewart." Sponsored by University Union, loggia, shown on request.

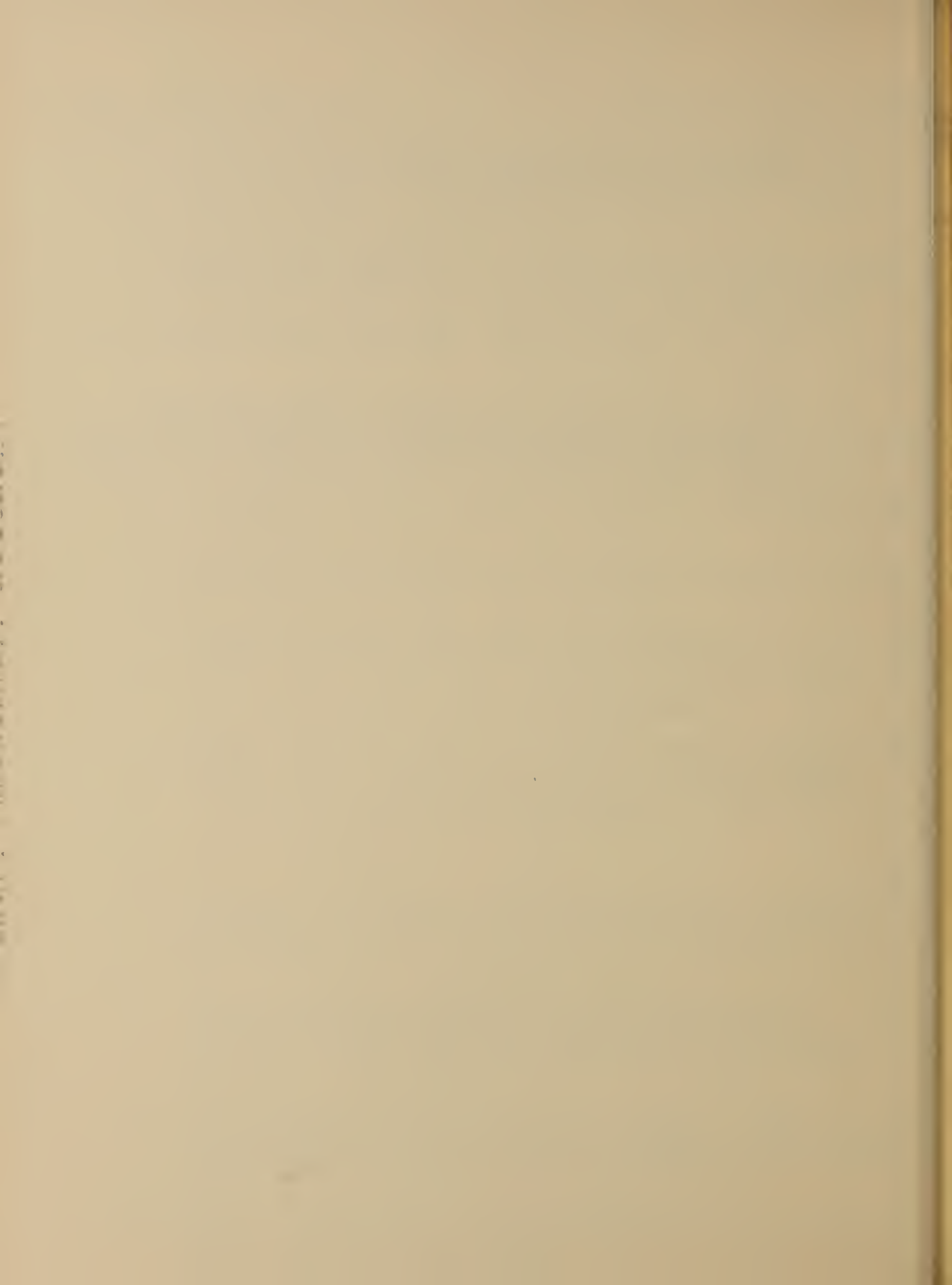


## Calendar of Campus Events (Cont.)

- 30-4/10 -- Gallery Exhibit: Recent work by Mike Vatalaro and collage/drawings by Judy Jones. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, 9 a.m.-4 p.m. weekdays, closed Saturdays, 2-5 p.m. Sundays, call 656-3079 for more information.
- 1 -- Film as Social Criticism Series: "Girl Friends," directed by Claudia Weill, a film of the struggle of two young people to establish careers and meaningful relationships. Sponsored by departments of English and sociology. Lee Hall auditorium, 7:30 p.m., open to public, free.
- 1 -- Tennis: Georgia (men), Sloan Tennis Center, 2 p.m.
- 1 -- Baseball: Georgia Tech, 3 p.m.
- 1 -- Short Courses: "Bicycle Repair" and "Hang Gliding" begin. Sponsored by University Union, details and sign-up at Union information desk.
- 1-5 -- Videotape: "Al Stewart." Sponsored by University Union, loggia, shown on request.
- 2 -- Performing Artist Series: "The Belle of Amherst." Sponsored by University Union, Daniel Auditorium, 8 p.m., \$2 admission charge.
- 2 -- Gutter: "Sweet Dixie Band." Sponsored by University Union, 8 p.m., located in the basement of the YMCA, donation requested.
- 2 -- Edgar's: "Cassidy Bridge Band." Sponsored by University Union, 9 p.m., 50¢ admission charge, ID and proof of age required.
- 2 -- Workshop: "A Nursing Perspective on Cardiac Problems," conducted by Ann Rawlings. Sponsored by continuing education department, College of Nursing enrollment limited to registered nurses, preregistration required, call 656-3079 for more information.
- 2 -- Baseball: Winthrop, 3 p.m.
- 2 -- Lecture: "The Topolotron: A Small Fusion Experiment." Dr. W.R. Hurren, The Citadel. Part of Energy Colloquia Series, 4 p.m, 101 Kinard Laboratory open to public, free. Sponsored by department of physics and astronomy.
- 2-4 -- Biology Merit Exam for Middle School and High School Students. Sponsored by biology program, College of Sciences, 330 Long Hall, 8:30 a.m.-- 4:30 p.m. Open to S.C. middle school and high school students who have had at least one life science course; registration \$2.
- 3 -- Open House and Dedication: Agricultural Service Lab. Cherry Road near Morgan Poultry Center, 10:45 a.m., open to public, sponsored by agricultural chemical services department, call 656-3172 for more information.
- 3-4 -- Edgar's: "Jessen." Sponsored by University Union, 9 p.m., \$1 admission charge, ID and proof of age required.

### Calendar of Campus Events (Cont.)

- 4 -- Film: "Winnie the Pooh." Sponsored by University Union, Brackett Hall auditorium, 7 p.m., 50¢ admission charge.
- 4 -- Tennis: UNC (men), Sloan Tennis Center, 2 p.m.
- 4 -- Track: University of Tennessee, field events begin at 1 p.m.
- 5 -- Baseball: Wake Forest, 2 p.m.
- 5 -- Free Flick: "Bonnie & Clyde." Sponsored by University Union. YMCA Theater, 9 p.m.
- 5-7 -- Workshop: "Wellness Workshop and Retreat," conducted by Carolyn Chambers Clark of The Wellness Institute. Enrollment limited to registered nurses, preregistration required. Sponsored by continuing education department, College of Nursing, call 656-3079 for more information.



APR 3 1981

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



March 31, 1981  
Vol. 20 No. 20

## ANNUAL TRIBUTE TO FOUNDER INCLUDES WEEK OF ACTIVITIES

Founder's Day becomes Founder's Week this year, as the University expands its annual tribute to Thomas Green Clemson, the person who willed Clemson into existence.

Activities ranging from lectures by prominent alumni to presentation of the first Thomas Green Clemson Medallions will be held on campus April 6-9.

Two distinguished alumni will speak in Daniel Auditorium.

On Monday, April 6, Henry C. Coleman, '26, chairman emeritus of Sun Bank in Daytona Beach, Fla., will speak. He is a former president of the U.S. Chamber of Commerce.

Prominent S.C. business figure B.C. Inabinet, '56, will speak Tuesday, April 7. Inabinet is owner of Defender Chemicals Inc. of Columbia.

During Honors and Awards Day Wednesday, April 8, each of the University's nine colleges will honor outstanding students.

At an awards luncheon, Thursday, April 9, President Bill Atchley will present emeritus certificates to two retired staff members. Also at that luncheon, alumni contributors to the University at two giving levels--Thomas G. Clemson Fellows and R.F. Poole Fellows--will be recognized.

At 5 p.m. Thursday the Student Alumni Council will sponsor a prayer service in St. Paul's Episcopal Church in Pendleton, the church Thomas Clemson attended.

Back on campus Thursday evening,

President Atchley will present Thomas Green Clemson Medallions to three persons who have given unusually distinguished service to the University. These will be the first Clemson Medallions awarded in the school's history. The presentations will be made during a dinner beginning at 8 p.m. in the Clemson House.

## UNIVERSITY RESEARCH OFFICE EXPANDING ITS SERVICES

A new publication containing news items about research is being produced by the Office of University Research, says Stan Nicholas, director of the office.

Using a newsletter format, the publication, Research Report, "will announce new research programs and funding and application deadlines, and will recognize faculty members who have been funded," says Nicholas.

"Being mainly a service to faculty, the newsletter will be sent to all faculty members and certain staff members," he says.

Research Report will aid the office in its efforts to bring together faculty members with specific areas of interest in research and the sponsors willing to fund such research, he says.

"Because additional research information is not coming in on a regular basis, the report will be published on an unscheduled basis," says Nicholas.

"Most universities have a newsletter similar to this one," he says.

In a further expansion of the office's activities, the University Research staff soon will send a one-page Faculty



Research Interest Inventory Form to all faculty members. Nicholas says this form will help the office develop and maintain information on faculty research interests.

All faculty and staff members are invited to visit the office in E-102 Martin Hall (ext. 2375), Nicholas says.

#### DEMONSTRATION WILL TEST DRINKING AND DRIVING

On Sunday, April 5, beginning at 12:30 p.m., a crowd will witness six students who, after drinking alcoholic beverages, will drive police cars.

The students, four males and two females, have agreed to participate in a demonstration to test the effects of drinking on the ability to drive. The program is being sponsored by the Sports Car Club, the Public Safety Department, and the Committee on Alcohol and Drug Abuse. The demonstration will take place on "G" street between the coliseum and the stadium, and is open to the public.

Each of the students will drive a police car through a course set up by the Sports Car Club, with members of the club riding along to record speed, accuracy, decision-making ability, and attention to safety precautions.

The students will drive the course three times to establish their "best times." The maximum speed one can drive the course will be about 35 mph.

After the initial run each student will drink an alcoholic beverage at his or her normal rate, take a breathalyzer reading, and drive the course again.

Between rides the driver will be questioned on how he feels about his ability to drive. The demonstration will continue until the driver wants to stop, the recorder wants to stop, or the driver reaches the .10 reading on the breathalyzer.

The results of the demonstration will be compiled and published by the University and other groups.

The demonstration is open to the public. If you want more information, call Joy Smith, chairman of the Committee on Alcohol and Drug Abuse (ext. 2270), or Jack Ferguson, director of public safety (ext. 2222).

#### GASOLINE AVAILABLE AT PUMPS ACROSS STATE

Gasoline pumps at state highway sheds are once again available to employees driving state cars, says Jim Boleman, director of purchasing.

Until recently only drivers of patrol cars and emergency vehicles were allowed to get gas from the "open pumps" because of shortfalls in the allocation of the fuel to the state.

Now, however, supplies have again reached the point where gas may be purchased -- with a state credit card -- for any state car.

A map showing the locations of state highway sheds with open pumps is in the glove compartment of each state car.

If you have questions or need more information, call Boleman in the purchasing division (ext. 2390).

#### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

J.W. Jordan (Assoc Prof) and C. Stassen Thompson (Assoc Prof) authored a paper, "The Effect of Mechanical Tobacco Harvesters on the Seasonal Demand for Labor," presented at the International Tobacco Workers' Conference, Lexington, Ky., Jan. 19-22.

Edward L. McLean (Prof) delivered a paper, "Supply of and Demand for University Faculty in Agriculture, Forestry, Home Economics, and Veterinary Medicine," at the annual meeting of the Southern Association of Agricultural Scientists, Rural Sociology Section, Atlanta, Feb. 1-4. The paper was co-authored by Vickie J. Alexander (Grad Asst) and Stephen R. Chapman (Assoc Dean and Dir of Res Instr).

Prof. McLean also delivered a paper, "International Experience of College and University Faculty in Four Disciplines" at the meeting. The paper was co-authored by Vicki R. LeNoir (Ag Sci Assoc) and Prof. Chapman.

Prof. Thompson, E.H. Kaiser (Asst Prof), Prof. Jordan and M.I. Loyd (Prof) were authors of a paper, "The Value of Tobacco Allotment Under Uncertainty," presented at the conference.

Prof. Thompson and Pradeep Ganguly (former Grad Asst) presented a paper, "The Distribution of the Benefits of Tobacco Harvest Technology" at the Southern Agricultural Economics Association meetings, Atlanta, Feb. 2-5.

#### AGRONOMY AND SOILS

V.L. Quisenberry (Assoc Prof), H.D. Scott (Assoc Prof, Univ Ark), R.E. Sojka (Soil Sci, USDA-SEA-AR, Florence) and C.W. Doty (Ag Eng, USDA-SEA-AR, Florence) presented a paper, "Measurement and Application of In Situ Hydraulic Conductivity on a Goldsboro Loamy Sand" at the Southern Association of Agricultural Scientists meeting, Feb. 1-4, Atlanta. At the same meeting, Prof. Quisenberry, Prof. Scott, Dr. Sojka and Dr. Doty were co-authors of a paper, "Nodal Components of Whole Plant Growth Analysis for 'Brugg' Soybeans." F.B. Arnold (Res Sci, USDA-SEA-AR, Florence) was senior author.

#### ANIMAL SCIENCE

John N. Williams II (Prof) was elected Chairman of the Southern Section Extension Livestock Specialists at the Southern Association of Agricultural Scientists meeting held in Atlanta, Feb. 1-4.

Prof. Williams received materials from American Cyanamid Company valued at \$2,100 and from Merck and Company valued at \$156. These materials are to be used in controlled demonstrations for worming beef cows and calves in farm herds.

Two papers were presented at the meetings

of the Southern Association of Agricultural Scientists and the Southern Section of the American Society of Animal Science in Atlanta, Feb. 1-4: "Effect of Reduced Suckling Intensity on Rebreeding Interval in Swine," J.R. Diehl (Assoc Prof), A.R. Ellicott (former Asst Prof), D.L. Handlin (Assoc Prof) and L.W. Grimes (Asst Prof Exp Stat); "Management Systems for the Use of PGF<sub>2</sub> $\alpha$  to Synchronize Estrus in Beef Cows," W.L. Skinner (Grad Asst), C.E. Thompson (Assoc Prof), Prof. Diehl and S.G. Woods (Instr). In addition, Prof. Diehl assumed chairmanship of the Physiology Committee for the Southern Section of the Society of Animal Science for the coming year.

#### BIOLOGY

Dr. Doris Helms (Assoc Prof), Dr. Ric Garcia (Asst Prof), Dr. Sharon Miller (Asst Prof), Dr. David J. Stroup (Asst Prof), and Dr. William Surver (Asst Prof) participated in the S.C. Junior Academy of Science Spring Workshop at J.L. Mann High School in Greenville, Feb. 7.

#### BOTANY

K.M. Peterson (Asst Prof) is senior author, "Tundra Vegetational Patterns and Succession in Relation to Microtopography near Atkasook, Alaska," and junior author, "Vegetational Change and Ice-Wedge Polygons Through the Thaw-Lake Cycle in Arctic Alaska" with W.D. Billings of Duke University. Published in Arctic and Alpine Research V12 #4.

Prof. Peterson has also reviewed the textbook Terrestrial Plant Ecology by Michael G. Barker, Jack H. Burk and Wanda D. Pitts, Benjamin/Cummings Publishing Co., Inc. Menlo Park, Calif. for the Ecological Society of America, to be published in the journal Ecology shortly.

#### CHEMICAL ENGINEERING

D.D. Edie (Assoc Prof) presented an invited seminar, "Mathematical Modeling of a Spinning Threadline" to the faculty and graduate students at the University of Florida, Jan. 16.

J.M. Haile (Assoc Prof) and C.G. Gray (Prof, Physics, Univ of Guelph, Ontario) have published "Spherical Harmonic Expansions of the Angular Pair Correlation Function in Molecular Fluids" in Chemical Physics Letters, 76, 583, (1980).

#### CHEMISTRY AND GEOLOGY

R.A. Abramovitch (Prof and Hd) and Claude Dupuy (Vstg Sci, Sabbatical leave, Univ of Grenoble) published a paper, "Photolysis of 2-Azidopyridine-1-oxides. A Convenient Synthesis of 1,2-Oxazines" in J.C.S. Chem. Commun. 36 (1981).

Dr. K. Dill (Asst Prof) presented a talk, "Recent Applications of  $^{13}\text{C}$  NMR to Studying Glycoproteins and Oligosaccharides" at Georgia State University in Atlanta, Feb. 12.

Prof. Dill gave a lecture, "Applications of Natural Abundance Carbon-13 Nuclear Magnetic Resonance Spectroscopy to Studies of Protein Structure," Albany State College, Albany, Ga., Feb. 19.

N.P. Marullo (Prof) received a \$20,000 grant from the National Science Foundation to support a program of summer research in chemistry for undergraduate students.

Prof. Marullo and A.W. Snow (Naval Res Lab, Washington, D.C.) presented a paper, "Thermal Polymerization of Bis-Phthalonitriles," at the Mid-Atlantic Regional ACS Meeting, Jan. 6, Washington, D.C.

Prof. Marullo presented a seminar at the Chemical Society of Washington on "Preparation of Monomeric and Polymeric Metal Free Phthalocyanines," Nov. 13.

Keith McDowell (Assoc Prof) visited Tennessee Technological University in Cookeville, Tenn., Feb. 13 and presented a seminar, "Quantum Monte Carol, A New Approach to Quantum Chemistry."

Prof. McDowell published a paper, "Use of Noncanonical Orbitals in Many-Body Perturbation Theory" in Int. J. Quantum Chem. XIX, 271 (1981).

J.D. Petersen (Asst Prof) and S.F. Clark (Grad Stu) published "Direct Evidence for Rearrangement of Five-Coordinate Excited-State Fragments Generated From Ligand Field Photodissociation in  $d^6$  Complexes of Rhodium(III)" in Inorg. Chem., 20 (1981).

Prof. Petersen presented a seminar, "Photochemistry of  $d^6$  Transition Metal Complexes - Basic and Applied Research" at UNC-Charlotte, Feb. 18

A.R. Pinder (Calhoun Prof) presented a seminar, "The Biosynthesis of Organic Compounds" at Converse College, Spartanburg, Feb. 27.

H.G. Spencer (Prof) presented a lecture, "Separations Using Membranes: Principles and Applications," at the Central Research Laboratories, CIBA-GEIGY Corp., Ardsley, N.Y., Jan. 29.

#### CIVIL ENGINEERING

Russell H. Brown (Prof) has received a research grant entitled, "Performance Evaluation of Brick Veneer with Steel Stud Back-up." The project is jointly sponsored by the Metal Lathe/Steel Framing Association and the Brick Institute of America for a period of one year in the amount of \$42,366.

Prof. Brown presented a paper, "Cyclic Response of Masonry Anchor Bolts," at the annual convention of The American Concrete Institute, Dallas, Tx., Feb. 12.

Herbert W. Busching (Prof and Hd) and Joel P. Porcher, Jr. (Vstg Instr) will present a paper, "Thermal Loading of Bituminous Built-up Roofing Membranes," at the 6th Conference on Roofing Technology sponsored by the National Roofing Contractors Association and the National Bureau of Standards, Md., April 30 and May

James L. Burati (Asst Prof) is the principal investigator on a \$136,884 research contract with the Federal Aviation Administration entitled, "Field Validation of Statistically-Based Acceptance Plan for Bituminous Airport Pavements." Soronadi Nnaji (Asst Prof), Prof. Busching, and



Frederick W. Morgan (Assoc Prof Math Sci) are co-investigators on the project which will span 24 months and support three graduate students.

J. Edwin Clark (Prof) has been awarded a \$20,000 extension for the Governor's Highway Safety Program for Continuation of the project, "Identification of Traffic Accident Problems and Evaluation of Countermeasures in South Carolina."

## COMPUTER SCIENCE

C.J. Duckenfield (Dir) published an article, "Obtaining Support for Computing," in CAUSE/EFFECT, January 1981.

Mr. Duckenfield published an article, "Clemson University Avoids Fragmented Word Processing," in Small Systems World, December 1980.

Hoke S. Hill (Assoc Prof Exp Stat) with Larry W. Grimes (Asst Prof Exp Stat), presented a paper, "Plotting Home Ranges for Wildlife Data," SAS Users Group International, Lake Buena Vista, Fl., Feb. 10.

R. Nelson (Res Assoc) chaired a session, "Words, Words, Words...Part II" 8th annual ACM-SIGUCC User Services Conference, Morgantown, W.V.

Nelson also presented a paper, "Multi-function Use of the Intelligent Copier," INFO80, New York.

Sandi Piazza (Sys Prog) presented a paper, "Word Processing in a University Environment," SHARE XXVI, Houston, Tx., March 12.

John Trice (Sys Prog) presented a paper, "Reading from an IDMS Database Using SAS," SAS Users Group International, Lake Buena Vista, Fl., Feb. 9.

## DAIRY SCIENCE

Dwight Vines (Assoc Prof), George Gramling (Prof), R.E. Wright (Prof) and Fred Pardue (Prof) conducted a Reproduction Short Course consisting of four sessions at 13 locations throughout

South Carolina during the period Jan. 12 - March 11.

Prof. Wright, Calvin Reeves (Assoc Prof), Prof. Vines and Robert Martin (Ag Sci Assoc III) conducted in-service training on Milking Management for 13 Extension county staff members.

## ECONOMICS

Hugh H. Macaulay (Alumni Prof) spoke Feb. 25 at a luncheon colloquy sponsored by the Committee for Monetary Research and Education in the U.S. Capitol.

## ELEMENTARY AND SECONDARY EDUCATION

E.J. Kozma (Prof and Hd) presented a paper, "The Principal's Role in Instructional Leadership" at the National meeting of the National Association of Secondary School Principals in Atlanta, Feb. 21.

Barbara M. Raetsch (Asst Prof) conducted a workshop, "How to Interpret Psychological Reports" for the Special Education faculty of Abbeville School District, Jan. 23.

Prof. Barbara M. Raetsch and Frederick C. Raetsch (Assoc Prof) presented a paper, "Assessing, Grouping, Teaching and Managing the Mainstreamed Student in Reading" Nov. 14, 1979, at the Southeastern Regional Conference of International Reading Association, in Norfolk, Va.

Prof. Barbara M. Raetsch conducted a workshop, "Listening and Comprehension Skills" for the Title I Reading Faculty of Anderson School District #5, Feb. 6.

## ENGINEERING TECHNOLOGY

David V. Hutton (Assoc Prof) presented a seminar, "Computer-Aided Manufacturing" at Tulane University, New Orleans, Feb. 4.

Carl R. Lindenmeyer (Assoc Prof) gave a presentation, "Speed Rating of Operator Performance" to the Greenville-Spartanburg Chapter of the American Institute of Industrial Engineers in Greenville,



Feb. 19. As part of the program, Prof. Lindenmeyer presented six performance rating films he produced and the Chapter membership was invited to evaluate each operator's performance.

#### ENGLISH

Harry Bayne (Former Grad Stu) read a paper, "Julia Peterkin and Henry Bellamann," at the Julia Peterkin Centennial Conference, Converse College, Spartanburg, Nov. 13.

Sterling Eisiminger (Assoc Prof) published "Hoover Dam" and "A Libation from Saturn: The Roman Aqueducts," two poems, in Rendezvous (Spring 1980).

M. Thomas Inge (Prof and Hd) gave an address at the annual meeting of the South Carolina Council of Teachers of English held in Columbia, Feb. 21.

Roger Rollin (Lemon Prof) published, "Self-Created Artifact: The Speaker and the Reader in The Temple" in "Too Rich to Clothe the Sunne": Essays on George Herbert, ed. Claude J. Summers and Ted-Larry Pebworth (Pittsburgh: University of Pittsburgh Press, 1980), pp. 147-161.

Mark Steadman (Prof) and Prof. Eisiminger read papers and conducted a panel discussion on fiction and verse composition at the annual Southeastern Conference on English in the Two-Year College, Biloxi, Miss., Feb. 20.

Edward P. Willey (Assoc Prof) published "Mutation," "Dimensions," "China Syndrome," and "Introspection," four poems, in Midwest Chaparral, Summer 1980, pp. 3 and 16, and "Three Ages of Man" in Higginson Journal, 26 (June 1980), 49.

#### ENTOMOLOGY, FISHERIES AND WILDLIFE

T.M. Brown (Asst Prof) was co-moderator with D.A. Wolfenbarger (USDA, Brownsville, Tx.) in a symposium, "Status of Resistance to Methyl Parathion and Permethrin in Heliothis spp." at the annual meeting of the Entomological Society of America in Atlanta, Dec. 1-4. Prof. Brown presented a paper, "Countermeasures for

Resistance."

#### ENVIRONMENTAL SYSTEMS ENGINEERING

Alan W. Elzerman (Asst Prof) gave a presentation titled, "Acid Rain in the Southeast?" at the Feb. 9 meeting of the Greenville chapter of the South Carolina Wildlife Federation.

James D. Hindman (Proj Adm) presented a workshop on Extended Aeration Package Plants at Greenville TEC, Jan. 28.

#### EXPERIMENTAL STATISTICS

L.W. Grimes (Asst Prof), H.S. Hill (Asst Prof and Comp Ctr Stat), and J.E. Toler (Instr) attended the 1981 SAS Users Group Meeting in Orlando, Fl., Feb. 8-11. Prof. Hill presented a paper, "Plotting Home Range for Wildlife Data" by Prof. Hill, Prof. Grimes, and H.C. Krasner (Asst Prof, Comp Sci) which was recognized as the outstanding presentation in the graphics applications session.

#### FOOD SCIENCE

Charles V. Morr (Stender Prof), Joseph J. Jen (Former Faculty), and Ronald L. Thomas (Former Grad Stu) presented a paper, "Localization of Peroxidase in Tomato Fruit Cells" at the American Society of Plant Physiologists at Washington State University, Pullman, Wa., Aug. 2-6.

Prof. Morr published a paper, "Preparation of a Homogeneous Tomato Fruit Peroxidase" with Thomas and Jen in Prep. Biochem. 10:581-596, 1980.

Prof. Morr, Si-Yen Chung (Former Grad Stu) and Jen published a paper, "Effect of Microwave and Conventional Cooking on the Nutritive Value of Colossus Peas (vigna unguiculata)" in J. Food Science 46: 272-273, 1981.

Prof. Morr also presented and co-authored a paper with Thomas and Jen, "Oxidation of Indolacetic Acid by Tomato Fruit Peroxidase" at the American Chemical Society Meeting, Las Vegas, Nev., Aug. 25-29.

The following papers were presented at the Southern Association of Agricultural Scientists, Food Science and Technology Meetings held on Feb. 1-4 in Atlanta:

--Robert F. Borgman (Prof), Stephen F. Lightsey (Res Spec), and William R. Roberts (Assoc Prof), "Relation of Hair Element Content of Hypertension in South Carolina Adolescents."

--Denis Medeiros (Grad Stu), Prof. Borgman, and Lightsey, "Hypertension in South Carolina Adolescents Attending 4-H Camp Bob Cooper."

--Thomas Moersen (Grad Stu) and Prof. Borgman, "The Effects of Dietary Carbohydrates on Lipid Metabolism, Cholelithiasis and Chromium Metabolism in the Rabbit."

--J.C. Acton (Prof), L. Breyer (Prof) and L.D. Satterlee (Prof), "Effect of Dietary Fiber Constituents on the in vitro Digestibility of Casein."

--Amitova Ghosh (Grad Stu) and S.S.H. Rizvi (Asst Prof), "Comparison of Destructive vs Non-Destructive Tests for Measurement of Residual Air in Retortable Pouches."

--Paul Hill (Grad Stu) and Prof. Rizvi, "Thermodynamic and Packaging Considerations for Storage Stability of Drum Dried Peanut Flakes."

--Christine M. Gagne (Grad Stu) and Prof. Acton, "Effects of Dietary Fiber Components on Protein Digestibility and Metabolism."

--Donald L. Burge (Grad Stu), Prof. Acton and Prof. Rizvi, "Physiochemical Changes in Protein and Lipid Constituents and their Relation to Rheology and Texture in Heating Comminuted Meats."

--Suzanne Woodard (Grad Stu), Rhoda L. Dick (Res Spec), Foster W. Wardlaw (Res Spec) and Prof. Acton, "In vitro Protein Quality Estimates of Various Soluble Fractions from Four Cereal Flours."

--Deborah J. Smith (Grad Stu) and Prof.

Acton, "The Nature of Gliadin Protein Toxicity in Celiac Disease."

--Gregory R. Ziegler and Prof. Acton, "The Heat-Induced Gelation and Protein-Protein Interaction of Actomysin."

--Karl Deily (Grad Stu) and Prof. Rizvi, "Optimization of Parameters for Packaging of Peaches in Polymeric Films," for which Deily's presentation received the Student Scientist Award.

Prof. Rizvi, J. R. Blaisdell and W.J. Harper published an article, "Thermal Diffusivity of Model Meat Analog Systems" in J. Food Sci. 45: 1727, 1981.

Prof. Rizvi, R.V. Josephson and J.L. Blaisdell published an article, "Separation of Soy-Spun Fiber, Egg Albumen and Wheat Gluten Blend by SDS Electrophoresis" in J. Food Sci. 45: 958, 1981.

Prof. Borgman and Lightsey published an article, "Influence of Norethindrone on Lipid Metabolism and Cholelithiasis in Rabbits" in Am. J. Vet. Res. 42: 290-293, 1981.

Terry C. Titus (Prof) participated on Crab Waste Panel to discuss "Potential Application of Closed-Loop Systems in Mechanical Crab Picking Operations" at the annual meeting of the National Blue Crab Industry Association, Jan. 31, Atlanta.

## HISTORY

Joseph L. Arbena (Prof) has published a review of Music in Latin America: An Introduction, by Gerard Behague, in The Americas, XXXVII:3, January 1981.

Elizabeth Carney (Asst Prof) has published an article, "The Conspiracy of Hermolaus" in Vol. 76, 1981 of The Classical Journal.

William Maker (Asst Prof, Phil) presented a paper, "Contemporary Notions of Evil" at the meeting of the South Carolina Academy of Religion, Feb. 21, Charleston.

A book by Denis Paz (Asst Prof), The

Politics of Working Class Education in Britain, 1830-1850, previously published in England by the University of Manchester Press, has now been published in the United States by The University of Massachusetts Press.

#### HISTORY AND VISUAL STUDIES

Harold N. Cooledge, Jr. (Alum Prof), presented a lecture, "Grandfathers of the Modern Movement," in the Lee Hall Auditorium Jan. 26, as part of the Clemson Architectural Foundation Lecture Series. Prof. Cooledge has also published the introduction, "Sloan's Victorian Architecture," Dover Publications, Inc., New York, N.Y., December 1980.

Harlan E. McClure (Dean) FAIA, addressed the representatives of the Nation's College Honor Societies on the subject, "South Carolina and Its Built Environment," at the Association of College Honor Societies meeting Feb. 12-14 in Charleston. Dean McClure is Grand Chapter Master of Tau Sigma Delta, the National Honor Society in Architecture and the Allied Arts.

Sam Wang (Prof) received the Purchase Award for his photograph, Figure/Ground, at the Pickens County Annual Juried Exhibition Feb. 1, at the Pickens County Museum of Art. Also exhibiting works from the University were Mike Vatalaro (Asst Prof), Tom Dimond (Asst Prof), Jose Suarez (Grad Asst), Maggie McMahon (Grad Asst), Sheri Hyatt (Grad Asst), Karou Seo (Grad Asst), Jeanee Redmond (Grad Asst), and Patricia Jenks (Grad Asst).

#### HOME ECONOMICS

Veronica Carmack (Assoc Prof), President of the South Carolina Home Economics Association, presided at the 66th Annual Convention in Charleston, Feb. 27-28.

Prof. Carmack taught a three weeks' course in Family Financial Management at the Extension Winter School at the University of Arizona in Tucson, Jan. 26-Feb. 12.

#### HORTICULTURE

M. LeRon Robbins (Prof) was elected President Elect of the Southern Region, American Society for Horticultural Science, at the meeting recently held in Atlanta in conjunction with the Annual Convention of the Southern Association of Agricultural Scientists.

Papers presented by our faculty at this meeting were:

--"Color characterization of 'Delicious' apple strains in South Carolina," by D.C. Coston (Asst Prof) and C.J. Massa (Grad Stu).

--"Effect of watering methods on growth of African violet, Saintpaulia ionantha (Wendl.)," by A.J. Pertuit, Jr., (Assoc Prof).

--"Influence of marine materials on growth of Chrysanthemum morifolium (Ramat.)," by A.R. Kingman (Asst Prof).

--Growth retardants reduce peach tree growth," by D.C. Coston (Asst Prof) and C.E. Gambrell (Assoc Prof).

--"The effect of applied N on yield, nodulation and  $N(C_2H_2)$  fixation in cowpeas (Vigna unguiculata (L.) Walp.) on a deep sand," by S.M. Olson (Ag Sci Assoc) H.D. Skipper (Prof, Agron Soils) D.O. Ezell (Prof) and E.L. Loomis (Asst Prof).

Alta R. Kingman (Asst Prof) presided over the Floriculture and Ornamentals Section at these meetings.

#### HOUSING

Almeda R. Boettner (Assoc Dir, Housing/Programs) presented a program at the Southeastern Association for Housing Officers annual conference in Williamsburg, Va., on overflow housing and the feasibility of a new residence hall.

Jack Young (Assoc Dir, Housing/Family Housing and Services) served as a member of a panel discussing family housing at the same conference.



## INDUSTRIAL EDUCATION (PICA OFFICE)

J. Page Crouch (Prof) had his speech to the International Craftsmen's Association published as a feature article in the January, 1981 issue of the Review of the Graphic Arts.

## INDUSTRIAL MANAGEMENT

John K. Butler, Jr. (Asst Prof) presented a paper, "A Generalized Euclidean Model for Scoring Multidimensional Instruments," at the 11th annual meeting of the Southeast American Institute for Decision Sciences in Charlotte, N.C., Feb. 27. He also served as discussant for a paper, "A Comparison of the Homogeneity of Individual and Organizational Value Systems in Two Organizations."

Prof. Butler presented a paper, "Student Participation in Deciding Performance Criteria for Grading: An Exercise and a Case Study," at the 8th annual conference of the Association for Business Simulation and Experiential Learning in Orlando, Fl., Feb. 20.

Michael J. Stahl (Assoc Prof) presented a paper, "A Behavioral Decision Theory Test of the Multiplicative Valence Model from Expectancy Theory," at the Southeast American Institute for Decision Sciences meeting in Charlotte, N.C., Feb. 25-27. The paper, which was co-authored with A.M. Harrell of the University of South Carolina, appears in the Proceedings, p. 142-144.

## INTERDISCIPLINARY STUDIES

Francis W. Cooke (Prof and Hd) and Joon B. Park (Assoc Prof) recently returned from the 27th Annual Meeting of the Orthopedic Research Society, Feb. 24-26, at Las Vegas, Nevada.

Andreas F. vonRecum (Prof) in cooperation with John W. Lawson (Prof) of the Microbiology department and Dennis L. Powers (Res Assoc) received \$17,260 from Park Davis, Greenwood, in the form of a contract to investigate a new method for surgical draping. This is the third contract successfully negotiated with

Park Davis, Greenwood, since March, 1980. The work is to be completed within an undefined period. It started Monday Feb 23.

## MATHEMATICAL SCIENCES

Robert E. Jamison (Assoc Prof) published a paper, "Finding Little Hyperplanes in Bigger Ones" in Linear Algebra and its Applications 35:11, 1981. This research was begun at the University of Erlangen while Prof. Jamison was supported by a research grant from the Alexander von Humboldt Foundation and through a Research Grant at Clemson.

Herman Senter (Assoc Prof) and Ken Cordell (Proj Ldr, Southeastern For Exp Sta) gave a paper, "Relationship Between Recreational Property Development and Management of Forest Lands in the South" at the Third Southeastern Recreation Research Conference, Feb. 19-20 Asheville, N.C.

## BSN PROGRAM

Barbara Barham (Vstg Instr) reviewed the book Childbearing: Physiology, Experiences, Needs (St. Louis: C.V. Mosby Co., 1979) by Wiggins. The review was published in the December, 1980 issue of Nursing Outlook.

## PHYSICS &amp; ASTRONOMY

P.B. Burt (Prof) was an invited participant in the Texas Symposium on Relativistic Astrophysics, Dec. 15-19, in Baltimore.

## PLANT PATHOLOGY &amp; PHYSIOLOGY

N. D. Camper (Prof) served as moderator for one session of Section X, Physiology, at Weed Science Soc. of America, Las Vegas, Nev, Feb. 16-19. He also presented two papers co-authored with graduate students: "Herbicide-induced Changes in Membrane Permeability of Tobacco Cells," with D.M. Talbert, and "Degradation of Diuron Under Anaerobic Conditions," with H.H. Attaway.

Kathleen A. Stralka (Grad Res Asst) and N.D. Camper (Prof) published a paper, "Microbial Degradation of Profluralin" in Soil Biology and Biochemistry, Vol 13, p. 33-38 (1981).



## PROFESSIONAL DEVELOPMENT

Ralph D. Elliott (Assoc Prof), Director of Professional Development, gave a presentation, "EDP Applications for Improved Marketing of Continuing Educational programs at the University of Chicago conference, Computers and Continuing Education Administration, Feb. 25-27.

## RECREATION AND PARK ADMINISTRATION

G.E. Howard (Prof) presented a paper, "Recreation Problems in the 80s" at the annual convention of the American Alliance for Health, Physical Education, Recreation and Dance - Southern District, Feb. 20, in Orlando.

Prof. Howard was elected Vice President - Recreation Division, American Alliance for Health, Physical Education, Recreation and Dance - Southern District for 1981-83. That office carries ex officio membership on the Board of Directors of the American Alliance for Leisure and Recreation. He previously held the same office from 1973 to 1976.

Brian J. Mihalik (Asst Prof) gave a presentation, "Proposing Recommendations as an Implementation Guide" at the Comprehensive Recreation Planning Workshop held at the University of Georgia, Feb. 25.

Prof. Mihalik presented a paper, "Practitioner Identified Technical Assistance Needs in Community Leisure Service Agencies" at the Southeastern Recreation Researchers Conference in Asheville, Feb. 29.

## SOCIOLOGY

Christine A. Hope (Asst Prof) authored "American Beauty Rituals" in Rituals and Ceremonies in Popular Culture, edited by Ray B. Browne (Bowling Green: Bowling Green University Popular Press, 1980), pp. 226-37.

## UNIVERSITY UNION

William Mandicott (Prog Dir) and Marcia K. Kiessling (Asst Prog Dir) attended the 21st annual National Entertainment

and Campus Activities Association National Convention in San Antonio, Tx., Feb. 18-22.

Mandicott presented an educational session, "Establishing a Travel Center and Working with Travel Agents."

Kiessling coordinated the travel educational sessions for the convention. She also presented two sessions, "Travel Ideas and Interaction Sessions," and "Is Our Present Economy Blotting Out the Travel Industry: Trends and Problems." The second session was coordinated with two airline executives from Sabena Belgium World Airlines and Delta. In addition, Kiessling coordinated the annual Travel Extravaganza, which was held the final evening of the conference.

Next year, Kiessling has been appointed to the Steering Committee of the National Convention, and will coordinate all educational sessions in the Program Services area.

## ZOOLOGY

Ruth Hays (Assoc Prof) participated in the fall workshop of the S.C. Association of Biology Teachers, Nov. 1-2 at the Medical University of South Carolina.

E. Ruppert (Asst Prof) presented a paper, "Myoepithelial Pharynges in Gastrotricha and Aspects of Muscle Cell Evolution," at the American Society of Zoologists Meetings in Seattle, Wash., Dec. 27.

Prof. Ruppert was invited to give a seminar, "Body Cavities and Blood Vessels - Ultrastructural Clarification Offers a New Synthesis in Invertebrate Phylogeny" at Northwestern University's Annual Invertebrate Colloquium, May 12.

John P. Wourms (Assoc Prof) presented a paper, "Maternal Fetal Nutrient Relationships in the coelacanth, Latimeria," at the Annual Meeting of the American Society of Zoologists, Dec. 27-30 in Seattle, Wash. The paper was co-authored by M.D. Stribling (Former Undergrad) and Dr. James Atz, American Museum of Natural History, New York.

# THIS WEEK AT CU

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## APRIL 6 - 12

- 6 -- Tennis: Georgia Tech (men), Sloan Tennis Center, 2 p.m.
- 6,7 -- Lectures: Henry C. Coleman, class of '26, chairman emeritus of Sun Bank, Daytona Beach, Fla., former president U.S. Chamber of Commerce, April 6; B.C. Inabinet, class of '56, owner of Defender Chemicals Inc., prominent South Carolina business figure, April 7. Both lectures in Daniel Auditorium, 7 p.m. Sponsored by Student Alumni Council and Speakers Bureau, call 656-2195 for more information.
- 6-12 -- Videotape: "Bengal Ball." Sponsored by University Union, loggia, shown on request.
- 7 -- Concert: music department presents the Clemson University Chorus and Choral Organization. Clemson United Methodist Church, 8 p.m., open to public, free.
- 7 -- Hypnotist: "Tom DeLucca." Sponsored by University Union, 8 p.m., Daniel Auditorium, admission 50¢, advance tickets available at Union program office.
- 7-9 -- Workshop: "Industrial Electrical Power Systems." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 8 -- Honors and Awards Day. Each college will hold a convocation; call the specific college for time and location. Army and Air Force ROTC ceremony will be in Daniel Auditorium at 4:15 p.m.
- 8 -- English Hour reading: A reading of student verse and fiction, titles and readers to be announced. 108 Strode Tower, 8-9 p.m., open to public, free.
- 8 -- Self Hypnosis Seminar. Sponsored by University Union, Palmetto Ballroom, 10 a.m.-noon, admission \$2.
- 9 -- Lecture: Noted nutritionist Dr. Alf Harper, University of Wisconsin, on role of nutrition in biogenic amine metabolism, 4 p.m., room A-102 Plant and Animal Sciences Bldg., sponsored by Fine Arts Lecture Series and interdepartmental nutrition program, contact Don Turk at 656-3397 for more information.
- 9 -- Workshop: "Dynamics of Warehouse Supervision." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 9 -- Lecture: "Problems with Radioactive Waste" by Dr. B.L. Cohen, University of Pittsburgh. Part of Energy Colloquia Series, 4 p.m., room 101 Kinard Laboratory, open to public, free, sponsored by department of physics and astronomy.

## THIS WEEK AT CU (Cont.)

- 9 -- "International Day." Sponsored by University Union and International Student Association; exhibits, slides, and music, 10 a.m.-6 p.m.; food, 6:30 p.m.; entertainment 7:30 p.m.; Palmetto Ballroom.
- 10 -- Square Dance with "Southern Select." Sponsored by University Union, plaza in front of loggia, 8-11 p.m.
- 10 -- Soccer: Eastman/Clemson Tournament, 6 p.m.
- 10-11 -- Edgar's: Scott Jones." Sponsored by University Union, 9 p.m., admission \$1, ID and proof of age required.
- 10-11 -- Dionysia '81. Drama competition for foreign language students from Southeastern universities and high schools. Sponsored by department of languages, call 656-3393 for more information.
- 11 -- Baseball: N.C. State, 2 p.m.
- 11 -- Tennis: Duke (men), Sloan Tennis Center, 2 p.m.
- 11 -- Bengal Ball, YMCA Beach, 1-6 p.m. Sponsored by University Union, advance tickets available.
- 12 -- Baseball: North Carolina, 2 p.m.
- 12 -- Soccer: Eastman/Clemson Tournament, championship game, 3:30 p.m.
- 12 -- Free Flick: "Lenny." Sponsored by University Union, 8 p.m. YMCA Theater.



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April 7, 1981  
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## NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



### CLEMSON AUDIENCE TOLD: WITH GASOLINE UNDER \$3, WOOD CARS NOT PRACTICAL

Even while wheeling his long, wood-powered limousine around the campus, Harry LaFontaine maintained wood is not a practical fuel for cars as long as gasoline sells for less than \$3 per gallon.

The car and LaFontaine, the man who modified it, visited the University March 31 for a seminar, press conference and a drive around campus.

"But wood gasification does work, and the car and its trailing woodburner sure draw the stares," said the Miami engineer. "There's intense interest now in all types of alternate energy sources."

Some South Carolina farmers are among those interested in wood gasification, and Bud Webb, head of the agricultural engineering department, said his depart-

ment is now researching gasification for tobacco curing.

"It's a simple technology that dates to the mid-1800s and one in which the U.S. lags far behind the Russians," LaFontaine said. He said modern woodburners now power logging and farm machinery in the Soviet Union.

LaFontaine is visiting southeastern colleges and universities with partial sponsorship of the U.S. Department of Energy. At Clemson he demonstrated the car and a wood-powered electrical generator.

The biomass gas generator behind the car carries 100 pounds of small wood blocks, enough for 100 miles. Firing up takes three to nine minutes. With wood fuel the car has about 80 percent its normal power, he said.

As a member of the Danish underground in World War II, LaFontaine worked extensively

FILL'ER UP WITH PINE-- Inventor LaFontaine gives a demonstration drive of his wood-fueled limousine near the P&A Building.





on gasification under emergency conditions.

"When the Germans occupied Denmark in the spring of 1940, they confiscated the fuel. We had crops in the field but no fuel to cultivate, harvest or get the food to market and people were starving," he said.

A crash development program quickly put "some pretty crude" gasification units on tractors and trucks. Later thousands were installed on buses, taxis and passenger cars.

"We powered them with coal, peat, wood-- anything we could get our hands on," said the former technical consultant for the James Bond movies. "As the war stretched into years, fairly sophisticated woodburners were produced by the tens of thousands."

There is currently a good deal of experimentation on large scale applications of gasification in this country, and one municipal power plant in Florida has been converted to gasification.

"The small scale technology could be a blessing in a time of emergency and, we need to keep it alive," he said.

#### COUNCIL HEARS BUDGET UPDATE

President Bill Atchley told the President's Council March 30 that the current version of the state's 1981-82 appropriations bill leaves Clemson with a \$4.2 million shortfall over the University's present operating budgets.

Atchley did not go into detail on the specifics of the shortfall, saying that to do so would require a lengthy explanation of numerous complex funding steps, calculations and technical terms.

But, he said, when all those factors are considered, analyzed and accounted for, the University faces an overall shortage of \$4.2 million in educational and general and public service activities funding.

The House of Representatives has already acted on Clemson's budget requests for next year, and once the House finishes with the total state budget the appropriations bill will be sent to the Senate.

Atchley said he thinks the University will be able to "make a good case for some relief" when the bill reaches the Senate Finance Committee.

"We're going to work with the Finance Committee members and explain to them where we are and what detrimental effects this funding shortage will have on us," he said.

He called getting additional dollars to raise faculty salaries "my top priority," and added that he is continuing to encourage Governor Richard Riley to conduct a study of employee fringe benefits within state colleges and universities.

On another matter Provost David Maxwell told the Council that he and the academic deans of the University are studying faculty workload assessment procedures.

He said this study is in its initial stages and that nothing new has been approved or adopted so far.

"Our intent is not to erect one standard for all departments," he said. "We simply need better information about what people do in order to use the best judgment in making decisions."

#### DEAN HURST VOTED INTO DAIRY HALL OF FAME

The South Carolina Dairy Association has named retired University vice president Victor Hurst to the S.C. Dairy Hall of Fame for pioneer work he did in developing the artificial insemination program for the state's dairy industry.

Hurst served in extension, research and teaching roles from 1943 until 1965 when he was promoted into administration. He recently retired as vice president for academic affairs and dean of the University.

The Hall of Fame selection was announced at the annual meeting of the Dairy Association in Columbia. Portraits and inscriptions honoring the individuals chosen each year are housed in the University's Plant and Animal Science Building.

Presenting the 1981 award, dairy science department head J.H. Martin paid tribute to Hurst for helping bring dairymen through the transition from "family cow operations to the large dairy operations we have today."

Martin said, "Dr. Hurst conducted research into new methods, he taught dairy students at the University, and he held training meetings and schools on farms around the state to teach artificial insemination and techniques of sire selection during the many changes in this field.

"He worked diligently and tirelessly to help dairymen solve their problems and get the most out of their breeding programs."

In addition to his dairy science extension work, Hurst taught courses in endocrinology and reproductive physiology and conducted physiology research.

As a professor of dairy science, in 1962 he was chosen as the first Alumni Professor at the University.

He was made dean of the Graduate School in 1965 and one year later was promoted to vice president for academic affairs and dean of the University. He retired in 1980 after almost four decades of service.

#### WILSON JOINS ALUMNI STAFF

H. Betts Wilson has joined the department of alumni relations and resources development, alumni executive officer George Moore announced this week.

Wilson, a 34-year Clemson staff member, is transferring from the College of Industrial Management and Textile Science, where he was assistant to the dean. In



Wilson

his new position, he will have major responsibilities in fundraising, working with alumni and friends who are executives in business and industry.

Wilson will maintain his affiliations with groups like the American Textile Manufacturers Association, the Southern Textile Association and the South Carolina Textile Manufacturers Association, Moore said.

A 1941 Clemson graduate, Wilson also will continue to have some responsibilities as a liaison between the textile department and industry officials. "Betts' professional career has always kept him in close contact with key people in the business community," said Tom Efland, acting dean of IM&TS.

"His knowledge of the industry will be especially valuable to our new dean, Dr. Ryan C. Amacher, who will assume his duties here July 1," Efland said.

In 1977 Wilson was named Man of the Year by the Fort Hill Clemson Club, which he served as president for three years. He is a member of Phi Psi Honorary Textile Fraternity and Tiger Brotherhood.

Also, he is secretary of the state division of the Southern Textile Association and sits on the board of directors of Carolina National Bank. He also serves on President Bill Atchley's Statewide Advisory Group.

## CHEMIST WINS RESEARCH AWARD

Chemist Rudolph A. Abramovitch received the 1981 Research Award from the Clemson University chapter of Sigma Xi at the group's annual banquet Friday night.

Sigma Xi is the national honor society for research, and this is the second year the Clemson chapter has presented the award for outstanding research.

Abramovitch, head of the University's department of chemistry and geology, is an internationally recognized scholar who has published more than 200 scientific papers and been awarded more than \$1 million in research funds over the years.

He is the editor of a four-volume series "Pyridine and Its Derivatives" which a University of Florida colleague calls "the definitive set of volumes on pyridine chemistry."

Within the past year, Abramovitch has traveled to England, Israel, Poland and South America to give invited lectures on his research. Says Henry Vogel, Dean of the College of Sciences: "I know of no faculty member in the College of Sciences, and perhaps in the University, who receives more invitations from all over the world to address research conferences."

Vogel credits Abramovitch's leadership with stimulating an increased level of research activity and funding in the department he has headed since 1977.

Abramovitch is a native of Alexandria, Egypt, who did his undergraduate work there at Farouk 1st University. He received his Ph.D. degree in organic chemistry from King's College, London University, in 1953.

He has taught at the University of Saskatchewan in Canada and at the University of Alabama.

## NURSEYMAN'S LOVE FOR GARDEN BLOOMS WITH TIME

The man who has tended the University's



Horticulturalist Crawford at work

horticultural gardens for more than a decade knows that an affection for plants is "something that grows on you."

Clemson native James H. "Jim" Crawford took a job with the horticulture department in 1939 to earn enough money to enroll at Clemson College. He eventually ended his formal education with professor status and watched the gardens grow from a 20-acre teaching site to 70 acres of flowering shrubs, herbs, wildflowers and grasses visited by more than 50,000 people this past year alone. Crawford conducted most of the tours, he says.

Crawford was involved with plant nutrition research in the late '60s when his department head asked if he would prefer the gardens. He had hunted the area as a small boy when the terrain was "woods and thickets," so he jumped at the chance to return to his old haunt, he says.



As superintendent of the horticulture gardens Crawford maintains the grounds, carries out landscaping plans, supervises laborers and makes sure the area is well manicured.

The 59-year-old has seen many seasons come and go as the garden's head nurseryman. He proudly boasts of the garden's beauty and speaks kindly of the many faces that have wandered down the earthen paths.

But his fondest memories are of a federally funded project that brought handicapped persons to the gardens as workers, Crawford says. The project was part of Clemson's well-known hortitherapy program.

"A lot of people don't want to give them a chance, but they did an excellent job," he recalls.

The group included mentally retarded, blind, physically handicapped, drug addicts and alcoholics. After training, about 85 percent went on to better jobs, some with the National Forest Service and others with florists and nurseries, Crawford says.

"It was one of the most rewarding jobs I've had since I came to the department," he adds.

He also beams when talking about the garden's provisions for the sight-impaired: guide ropes that weave through the flora, attached to markers written in Braille.

Crawford is awed by a sightless man who tends one of the department's green-houses. "He does it all by touch," the veteran horticulturist says.

Retirement lies ahead and Crawford says he looks forward to "catching up on my hunting and fishing." And after he leaves the University he probably will continue to carry a well-worn message to anyone who will turn an ear:

"A lot of people think these gardens are just for the horticulture department, but they're not. They're an invaluable

teaching and research tool. The public can come in and see the different types of grasses and plants and plan their yards. The gardens are for everyone."

Crawford envisions the gardens someday encompassing 100 acres and hopes more historical features will be added, such as the renovated grain mill that is a popular attraction.

He tried to impress upon his two sons the value of horticulture, but both chose coaching careers instead. Yet that's okay, he says, since "you have to do what interests you."

"I've enjoyed every bit," Crawford says of his work. "If I had to live my life over again I wouldn't change a thing."

#### EASTERN AIRLINE TICKETHOLDERS MAY RECEIVE A REFUND

If you've bought an Eastern Airline Super Saver ticket for a flight between April 20 and May 31, you may be due a refund.

Eastern has announced a fare reduction to \$298 for a Super Saver flight, round trip, to any point in the United States during that period. The fare for a child under 12 traveling with an adult is \$98.

If you've paid for tickets at prices higher than this for those dates, you can have your tickets re-written at the new prices and receive the appropriate refunds.

For more information, call Mark Malmgran at Small World Travel Agency (654-6125).

#### EYEWITNESS TO TELL OF SPACE SHUTTLE LAUNCH

David Adair of Intersect, a non-profit advocacy group for applying space technology to private industry, will give an eyewitness account of the Space Shuttle launch Monday, April 13, at 8 p.m. in Brackett Auditorium.

Adair, Intersect's director, holds degrees in jet engine technology, computer



sciences, astronomy, aeronautics, and spaces physics.

Intersect is based in North Carolina and sanctioned by Rockwell International,

builder of the Space Shuttle, and NASA.

The slide-tape lecture is sponsored by the University Union and is open to the public without charge.



**CLOCKWORK ORANGE** -- The University woke up April Fool's Day to find a prankster had turned the west face of stately Tillman Hall clock tower into a Mickey Mouse watch. Thursday morning a second mouse appeared on the south face of the clock. By mid-afternoon the physical plant was reportedly building a giant mousetrap to be baited with Clemson blue cheese.

# THIS WEEK AT CU

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APRIL 13-19

- WORKSHOPS**
- 13-14 "Material Handling." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 14-15 "Yarn Preparation for Shuttleless Looms." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 14-16 "Microcomputer Hardware Interfacing." Sponsored by Office of Continuing Engineering Education, call 656-3308 for more information.
- EXHIBITS**
- 13-24 "Architectural Thesis and Terminal Project Review," projects representing the culmination of six years of study in the College of Architecture. Rudolph E. Lee Gallery, 9 a.m. -- 4:30 p.m. weekdays, 2-5 p.m. Sundays.
- LECTURES**
- 16 "Energy--the Clemson Perspective," Dr. Bill L. Atchley, President of Clemson University. Part of Energy Colloquia Series, sponsored by departments of physics and astronomy; room 101, Kinard Laboratory, 4 p.m.; open to the public, free.
- 16 "Characteristics of Humic and Fluvic Acids in Southeastern Aquatic Systems," Dr. James Alberts, Savannah River Ecology Laboratory. Sponsored by department of environmental systems engineering; 302 Rhodes Engineering Laboratory, 4 p.m.; open to the public, free. For more information call Alan W. Elzerman at 656-3276.
- FILMS**
- 13 Japanese Film Series II: "The Ariake Tideland." 3:45 - 4:45 p.m., Lee Hall Auditorium. Open to public, free. Sponsored by architectural studies department, call 656-3081 for more information.
- 15 Film as Social Criticism Series: "The Molly McGuires," a secret society of Irish coal miners in Pennsylvania around 1876, with Sean Connery and Richard Harris. Sponsored by departments of English and sociology; Lee Hall Auditorium, 7:30 p.m., open to public, free.
- 19 Free Flick: "The Love Bug." Sponsored by University Union; 8 p.m., YMCA Theater.

## THIS WEEK AT CU (Cont.)

|               |       |                                                                                                                                                                                     |
|---------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ATHLETICS     | 13    | Tennis: Louisiana State University (women), Sloan Tennis Center, 2 p.m.                                                                                                             |
|               | 13,14 | Baseball: South Carolina, 3 p.m.                                                                                                                                                    |
|               | 14    | Tennis: Georgia (women), Sloan Tennis Center, 2 p.m.                                                                                                                                |
|               | 15    | Tennis: Furman (men), Sloan Tennis Center, 2 p.m.                                                                                                                                   |
|               | 17-19 | Tennis: ACC Tournament (men), Sloan Tennis Center.                                                                                                                                  |
| CONCERTS      | 16    | Clemson University Concert Band in spring concert. Presented by music department; Littlejohn Coliseum, 8 p.m.; open to public, free.                                                |
| PLAYS         | 13-18 | "One Flew Over the Cuckoo's Nest," Daniel Auditorium or Daniel Annex; 8 p.m. except 3:30 p.m. Thursday, April 16. Presented by Clemson Players, call 656-3151 for more information. |
| GENERAL NOTES | 13-19 | Videotape: "Clemson vs. Carolina." Sponsored by University Union, loggia, shown on request.                                                                                         |
|               | 16    | Gutter: "The Hired Hands," a bluegrass band. Sponsored by University Union, 8 p.m., donation requested.                                                                             |
|               | 16    | Campus Skates. Skates will be rented outside of the Union for \$1 from noon to 4 p.m. Sponsored by University Union. Bring student activity card.                                   |
|               | 18    | Overnight Canoe Trip. Sponsored by University Union. Details and sign-up at the Information Desk, deadline for sign-up is the 16th.                                                 |



APR 14 1981

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



April 14, 1981  
Vol 20 No 22

## CLEMSON MEDALLION AWARDED FOR FIRST TIME AT HONORS AND AWARDS BANQUET

Sen. Strom Thurmond, Thomas M. Hunter and Frank J. Jervey Thursday night received the first Thomas Green Clemson Medallions ever given by the University. The Awards were presented at a banquet that capped off this year's Founder's Week.

At an awards luncheon Wednesday Frank Howard, former Tiger football coach, and Joe Sherman, retired director of alumni relations, were awarded Emeritus Staff status. Also at that luncheon, five students received special awards.

The Clemson Medallion, the highest public honor anyone can receive from the University, honors the school's founder, Thomas Green Clemson, who willed his plantation and part of his fortune to the state of South Carolina when he died in 1888.

Thurmond, a 25-year veteran of the U.S. Senate, graduated from Clemson with a degree in horticulture in 1923. He has been a farmer, teacher, lawyer, state senator, circuit judge, governor of South

Carolina and general in the U.S. Army Reserve.

He mounted an impressive third-party campaign for the U.S. presidency in 1948, receiving 39 electoral votes, and in 1954 became the first person ever elected to the U.S. Senate by a write-in vote.

Thurmond today is chairman of the Senate Judiciary Committee and, as President Pro Tem of the Senate, is fourth in the presidential succession line.

Hunter, class of '09, had a distinguished 60-year career as an electrical engineer, business executive and inventor. He holds more than 20 patents and invented, in the early 1940s, the "Hunter transformer," which today is used throughout the world. He was president of the American Transformer Co. from 1933 until 1948.

In 1973 Hunter's deferred gift of \$500,000 established the first fully endowed chair in the University's history. The Hunter Endowed Chair of Bioengineering honors his brother, the late Joseph E. Hunter, a long-time professor of chemistry at Clemson.



NEW AG FACILITY -- Plant tissue analysis, soil testing, nematode assay work, and feed analysis are among services available for South Carolina farmers and home gardeners through the Agricultural Service Laboratory building recently opened on campus. Checking out a piece of equipment during open house were, from left, Dean of Agriculture Luther P. Anderson; Sen. Ed Garrison, chairman of the Governor's Advisory Committee on Agriculture; and Trustee D. Leslie Tindal of Pinewood.



Jervey graduated from Clemson College in 1914. A Summerville native, "Captain" Jervey served in the Army in World War I and made the military his career. He was inducted into the U.S. Army Ordinance Hall of Fame in 1980 for "career contributions which permeated all phases of the small arms ammunition effort" during World War II and the Korean War.

After his retirement in 1953, Jervey returned to Clemson, where he served as vice president for development from 1959 to 1963 and as a life trustee from 1965 to 1975. He was elevated to Emeritus Trustee status in 1977. Jervey Athletic Center is named in his honor.

John B. Gentry, who has served as a Pickens County School trustee, a professor of education at the University and, from 1957-1976, as personnel director was the non-student winner of the Algernon Sydney Sullivan award, one of the University's top non-academic awards.

The Sullivan medal recognizes distinguished service to humanity and to the Clemson community. Corinne Sawyer, chairman of the honors program, said Gentry was honored for his involvement through the years in numerous civic and professional organizations.

"He has worked tirelessly for benefits for state employees and the elderly," Sawyer said.

The student winner of the Sullivan award was Oscar F. Lovelace Jr. of Columbia, outgoing Student Government president.

Larry M. Allsep of Atlanta received the Trustees Medal. First awarded in 1903, it traditionally goes to the best speaker in the student body.

Winner of the Phi Eta Sigma award, given to the graduating senior with the highest grade point average, was Clinton E. Hamlin of Anderson. Susan L. Maxwell of Greenville took the American Association of University Women award as the top ranking woman in this year's graduating class.

Four students won Phi Kappa Phi awards,

given annually to the highest ranking upperclassmen who have earned at least 75 percent of their credits at Clemson. They were Linda D. Cox of Travelers Rest, David N. Mahony of Charleston, Joseph B. Tedder of Gastonia, N.C., and Joseph R. Wofford II of Spartanburg.

#### SEVEN STUDENTS WIN TOP SCHOLARSHIPS

Seven top high school students have recently been awarded three of the University's most prestigious scholarships: Clarence A. and Julia C. McLendon Memorial Scholarship, the Jeanne Fraser and George Raymond MacDonald Scholarships, and the Clemson University Alumni Scholarships.

Cherie Porter of Kingsport, Tenn., has been awarded the McLendon Scholarship. A senior at Dobyns-Bennett High School, she plans to prepare for a veterinary career.

Lou Ann Elder of Summerville and Stephen Hubbard of Clemson have been awarded the MacDonald Scholarships.

Elder, a Summerville High School Senior, is planning for a career in medicine. Hubbard, a senior at Daniel High School and the son of agricultural economics professor John W. Hubbard, will study electrical engineering.

Receiving the Alumni Scholarships are Don Maurice Weston, Wendell Charles Godfrey, Jeanella Nelson and Buford Lamont Mobley.

Weston, a senior at Charleston High School and Nelson, a senior at Cleveland Heights High School, will enter the University next fall as civil engineering majors.

Godfrey, a senior at Orangeburg-Wilkinson High School, and Mobley, a Spartanburg High School senior, will major in chemical engineering.

Julia C. McLendon provided a bequest for the University to establish an endowment for a scholarship in her and her husband's names. The McLendon scholarship is offered to a freshman and an upperclassman annually.

The MacDonald Scholarship was established in 1976 by Jeanne Fraser MacDonald of Anderson in memory of her late husband.

The Alumni Scholarships, awarded annually, are sponsored by the Clemson Alumni Association through the Alumni Loyalty Fund.

The awarding of all three scholarships is based on academic merit.

#### CLEMSON EXPANDS SUMMER PROGRAM FOR MINORITIES

The University's summer engineering program for minority high school students will be expanded this year into seven other career fields.

Applications are being accepted now for a pair of two-week sessions in July that will introduce black and other minority high schoolers to majors leading to careers in business and accounting, nursing, law and medicine, mathematics, education, agriculture and forestry.

More than 6,000 letters have been sent to high school guidance counselors, principals and math and English teachers inviting nominations. About 80 students, all rising juniors, will be accepted. There will be no cost to the students.

The new program is an expansion of a highly successful series of summer orientation workshops in engineering that began in 1978. That program has already resulted in a 100 percent increase in enrollment by blacks in engineering.

The 60 students who came to the first engineering workshop in 1978 are college freshmen now. Almost all went on to college, two-thirds of them in engineering. About one-third wound up enrolling here where their grades are slightly higher than the average freshman's grades.

The new program was "designed from what worked in the past," says Corinne Sawyer,

director of the summer workshop.

"The workshops will give students a realistic view of what it takes to have a chance in these professions," says Sawyer. "It will also show them what kind of preparation they need in high school to do college work."

#### STUDENT SELECTED STATE CHERRY BLOSSOM PRINCESS

Clemson sophomore Pam Atchley represented the state of South Carolina during this year's annual Cherry Blossom Festival in Washington, D.C., March 30 - April 4.

Atchley was selected the state's Cherry Blossom Queen by the South Carolina State Society. She was one of 25 girls considered for the honor.

The civil engineering major and daughter of University President and Mrs. Bill L. Atchley joined representatives from the 49 other states and five U.S. territories in weeklong festivities, including tours, receptions, the nationally televised Cherry Blossom Parade and the National Cherry Blossom Ball.

#### STATISTICS ON GPRS SHOW LITTLE CHANGE

The mean GPR over the past two years hasn't risen, according to a report to be published by the Registrar's Office, says Registrar Stan Smith.

The Registrar's Office will send the 13-page report, containing charts showing GPR's broken down by sex, class and major, as well as trends during the past five years, to deans and department heads in mid-April.

According to statistics in the following charts, says Smith, "it appears that grade inflation hasn't occurred to the extent we had thought."

TABLE I. CUMULATIVE GRADE-POINT RATIOS OF ALL STUDENTS ENROLLED FOR THE SPRING SEMESTER 1981 (Exclusive of Graduates, Postgraduates, Unclassified and Spring Semester 1981 Entering Students)

| Cumulative<br>Grade-Point<br>Ratios | Students Enrolled for the Spring Semester 1981 |            |         |         |       |
|-------------------------------------|------------------------------------------------|------------|---------|---------|-------|
|                                     | Freshmen                                       | Sophomores | Juniors | Seniors | Total |
| 3.80-4.00                           | 113                                            | 67         | 60      | 64      | 304   |
| 3.60-3.79                           | 79                                             | 72         | 90      | 107     | 348   |
| 3.40-3.59                           | 115                                            | 102        | 136     | 126     | 479   |
| 3.20-3.39                           | 141                                            | 124        | 149     | 162     | 576   |
| 3.00-3.19                           | 200                                            | 164        | 202     | 218     | 784   |
| 2.80-2.99                           | 151                                            | 173        | 212     | 208     | 744   |
| 2.60-2.79                           | 205                                            | 224        | 235     | 265     | 929   |
| 2.40-2.59                           | 201                                            | 234        | 258     | 243     | 936   |
| 2.20-2.39                           | 178                                            | 244        | 297     | 239     | 958   |
| 2.00-2.19                           | 164                                            | 231        | 251     | 226     | 872   |
| 1.80-1.99                           | 87                                             | 177        | 189     | 195     | 648   |
| 1.60-1.79                           | 108                                            | 131        | 136     | 54      | 429   |
| 1.40-1.59                           | 79                                             | 98         | 58      | 14      | 249   |
| 1.20-1.39                           | 72                                             | 53         | 33      | 2       | 160   |
| 1.00-1.19                           | 48                                             | 15         | 8       | 2       | 73    |
| 0.80-0.99                           | 29                                             | 6          | 0       | 0       | 35    |
| 0.60-0.79                           | 14                                             | 3          | 3       | 1       | 21    |
| 0.40-0.59                           | 12                                             | 2          | 1       | 0       | 15    |
| 0.20-0.39                           | 6                                              | 7          | 1       | 0       | 14    |
| 0.00-0.19                           | 5                                              | 1          | 1       | 0       | 7     |
| Total                               | 2007                                           | 2128       | 2320    | 2126    | 8581  |
| Median                              | 2.59                                           | 2.47       | 2.52    | 2.66    | 2.56  |
| Mean                                | 2.53                                           | 2.49       | 2.57    | 2.69    | 2.57  |

TABLE II. COMPARISON OF MEDIAN CUMULATIVE GRADE-POINT RATIOS 1977-1981

| Class        | Median Grade-Point Ratios              |                                        |                                        |                                        |                                        |
|--------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
|              | Students<br>Enrolled<br>Spring<br>1977 | Students<br>Enrolled<br>Spring<br>1978 | Students<br>Enrolled<br>Spring<br>1979 | Students<br>Enrolled<br>Spring<br>1980 | Students<br>Enrolled<br>Spring<br>1981 |
| Freshman     | 2.53                                   | 2.50                                   | 2.53                                   | 2.56                                   | 2.59                                   |
| Sophomore    | 2.43                                   | 2.48                                   | 2.46                                   | 2.48                                   | 2.47                                   |
| Junior       | 2.52                                   | 2.53                                   | 2.57                                   | 2.56                                   | 2.52                                   |
| Senior       | 2.66                                   | 2.65                                   | 2.66                                   | 2.66                                   | 2.66                                   |
| All Students | 2.54                                   | 2.55                                   | 2.56                                   | 2.56                                   | 2.56                                   |

TABLE III. COMPARISON OF AVERAGE (MEAN) CUMULATIVE GRADE-POINT RATIOS 1977-1981

| Class        | Average Grade-Point Ratios             |                                        |                                        |                                        |                                        |
|--------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
|              | Students<br>Enrolled<br>Spring<br>1977 | Students<br>Enrolled<br>Spring<br>1978 | Students<br>Enrolled<br>Spring<br>1979 | Students<br>Enrolled<br>Spring<br>1980 | Students<br>Enrolled<br>Spring<br>1981 |
| Freshman     | 2.53                                   | 2.50                                   | 2.53                                   | 2.49                                   | 2.53                                   |
| Sophomore    | 2.46                                   | 2.50                                   | 2.48                                   | 2.50                                   | 2.49                                   |
| Junior       | 2.56                                   | 2.56                                   | 2.58                                   | 2.59                                   | 2.57                                   |
| Senior       | 2.69                                   | 2.68                                   | 2.69                                   | 2.68                                   | 2.69                                   |
| All Students | 2.56                                   | 2.56                                   | 2.58                                   | 2.57                                   | 2.57                                   |



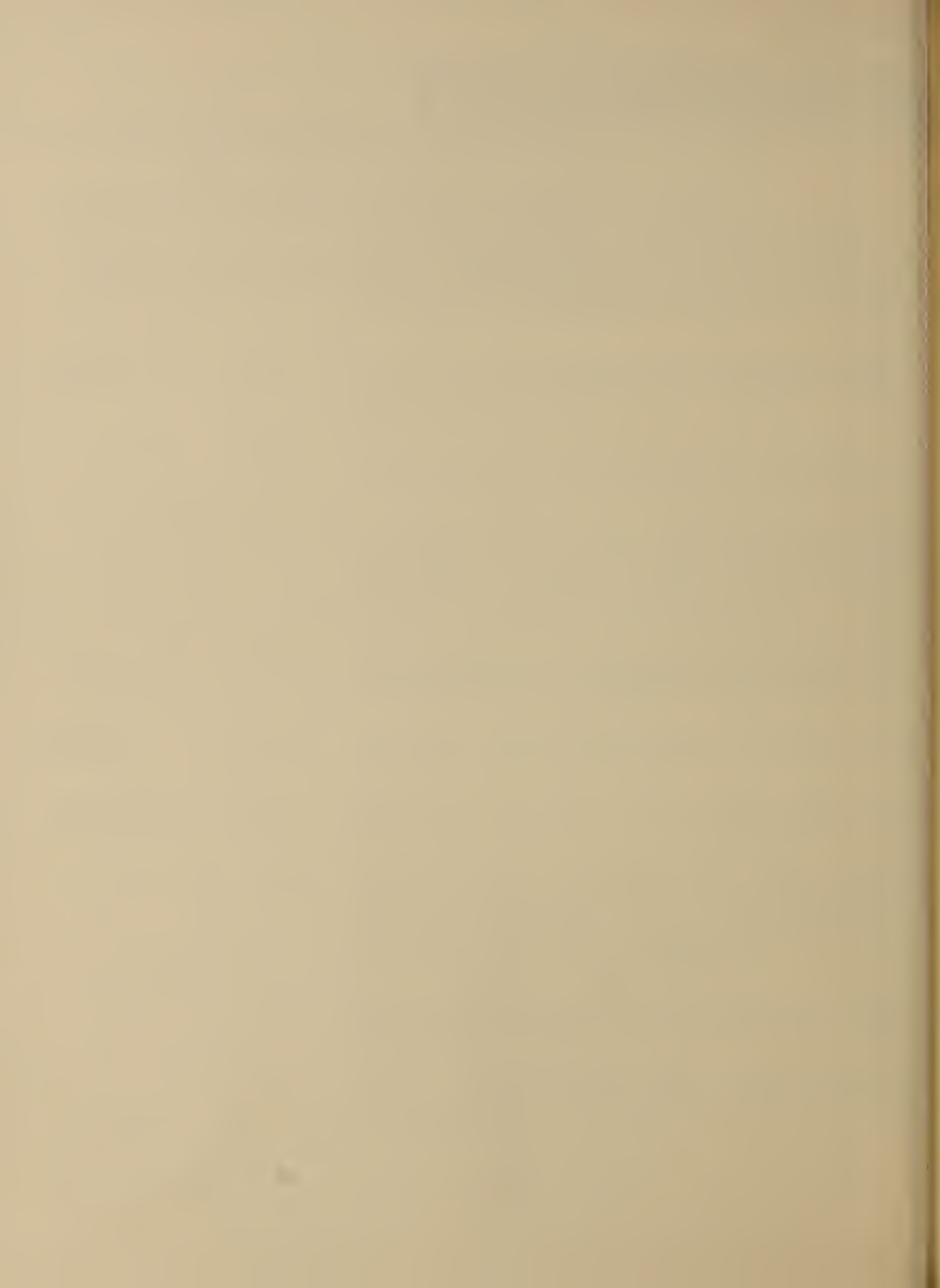
# THIS WEEK AT CU

APRIL 20-26

- |               |       |                                                                                                                                                                                                                                                                                |
|---------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LECTURES      | 23    | "Leachate Recycle as a Landfill Management Option," Dr. Frederick G. Pohland, Georgia Institute of Technology. Sponsored by department of environmental systems engineering; 302 Rhodes Engineering Laboratory, 4 p.m. Call Alan W. Elzerman at 656-3276 for more information. |
| WORKSHOPS     | 21-22 | "Intel 8086 16 Bit Microprocessor." Sponsored by Continuing Engineering Education; call 656-2200 for more information.                                                                                                                                                         |
|               | 21-23 | "Special Topics in Textile Printing." Sponsored by Office of Professional Development; call 656-2200 for more information.                                                                                                                                                     |
|               | 23-24 | "Nursing Analysis of Cardiac Arrhythmias," conducted by Ann Rawlings, visiting instructor. Sponsored by continuing education department, College of Nursing. Enrollment limited to registered nurses, pre-registration required. Call 656-3079 for more information.           |
|               | 23-24 | "Assertiveness Training for New First-Line Supervisors." Sponsored by Office of Professional Development; call 656-2200 for more information.                                                                                                                                  |
| CONCERTS      | 21    | Department of music student recital. Daniel Auditorium, 7:30 p.m.; open to public, free.                                                                                                                                                                                       |
| GENERAL NOTES | 20-26 | Videotapes: "Billy Joel" and "Polydor Recording Artist." Sponsored by University Union, loggia, shown on request.                                                                                                                                                              |
|               | 21    | Spring dairy show, sponsored by dairy science department, the Dairy Science Club and the South Carolina Purebred Dairy Cattle Association, 9 a.m., Clemson Bull Test Station off U.S. 76, open to public, free. Call Phil Perry (ext. 3231) for more information.              |
|               | 21    | Picnic for faculty and staff. Sponsored by University Club, Outdoor Laboratory. Call D.C. Coston (ext. 3404) for more information.                                                                                                                                             |
|               | 24    | Edgar's: "Dick Childs Guitar Army." Sponsored by University Union; 9 p.m., \$1 admission charge. ID and proof of age required.                                                                                                                                                 |

THIS WEEK AT CU (Cont.)

- 25 Beach Music Festival, sponsored by University Union.  
Details at the information desk.
- 26 Free Flick: "Hey There, It's Yogi Bear." Sponsored  
by University Union; 8 p.m., YMCA Theater.
- 26 Bike Trip on Blue Ridge Parkway, sponsored by Univer-  
sity Union. Sign-up at the information desk, deadline  
April 24.



April 21, 1981  
Vol. 20, No. 23

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



CLEMSON UNIVERSITY LIBRARY  
SOUTH CAROLINA ROOM

APR 23 1981

## ATCHLEY TELLS TRUSTEES BUDGET PICTURE STILL BLEAK

Telling the Board of Trustees April 10 that "Clemson is the key to this state's success," President Bill Atchley again stated the University's case for relief from a \$4.2 million deficit in the 1981-82 budget.

"The state cannot afford to turn its back on higher education or on Clemson," he said. "Our industrial growth and agricultural economy depend on Clemson programs."

Clemson's goal, presented in a fact sheet prepared for the board, is to seek an additional \$3 million by appealing to the Senate Finance Committee. If not successful, Atchley said, Clemson will have to eliminate some programs.

He said one may be the regulatory role Clemson plays in inspecting poultry and livestock. He said the alternative to the current education-based program is a federal program.

Atchley said faculty salaries remain his top priority. State leaders need to understand that qualified faculty members cannot be recruited and retained as easily as other state employees, he said.

Atchley circulated among trustees and members of the press a list showing faculty members (by title) who had left Clemson to take more profitable jobs or had been offered better jobs recently at other universities or in industry.

"I sincerely believe that unless some (funding) relief comes this year, the foundation this University is built on will start to crack," he said.

Sen. James M. Waddell of Beaufort, a trustee and member of the Senate Finance Committee, said the budget situation is "the most difficult we've had in a decade."

He said if additional funds come to Clemson they must come from within the present budget, reallocated from budgets already approved for other agencies.

"I will plead heavily for some modification," he said, "but it won't be easy. It will take us all working together."

"Don't leave here thinking we can 'push the button' and have \$3 million appear."

Reporting on more positive news, President Atchley told the board that the Abney Foundation's \$1 million gift to establish the Abney Chair of Free Enterprise "is indicative of the private sector's recognition that this public institution is not state supported, but state supplemented."

## EMPLOYEES PLANNING TO RETIRE SHOULD CONTACT PERSONNEL NOW

If you're thinking of retiring in the next couple of months and haven't already notified the Personnel Office of your plans, you should contact Personnel right away.

Assistant personnel director Dick Simmons says employees planning to retire around June 30 who fail to let Personnel know by May 1 may face delays in receiving benefits.

He says retiring employees who haven't talked with him yet should call him (ext. 2426) or stop by the Personnel Office on Highway 93 (across from the tennis courts) immediately.



The board heard reports from two other fund-raising arms of the University: the Alumni Association and IPTAY.

Alumni president Rusty Donkle of Greenville said Founder's Week activities highlighted the exceptional caliber of Clemson's students. "We simply can't put too much emphasis on the high quality of the educational programs at our university as represented by the students honored this week," he said. "But they will suffer if we can't support them properly."

IPTAY president John Timmerman of Spartanburg said "the academic story as well as a sports update" will be told at 60 joint IPTAY/alumni Clemson Club meetings across the state this spring.

"IPTAY has again set new giving records," he said. "We have 15,000-plus members who have contributed some \$2.5 million versus \$2.25 million last year. With earned income, we expect the total funds this year to reach \$2.9 million."

He said more than \$400,000 was received in matching gifts and that \$175,000 of that would be given to Atchley to use at his discretion.

In other business the board:

- Heard outgoing Faculty Senate president Stassen Thompson report that faculty morale is high. "The faculty appreciates this administration's willingness to look for solutions rather than ignoring problems." Thompson's successor, chemical engineering professor Steve Melsheimer, said he believes "the Clemson faculty is dedicated to developing the institution to its fullest potential."

- Delayed ratifying mail-ballot action changing the name of the College of Industrial Management and Textile Science to the College of Management and Textiles. Chairman Paul W. McAlister of Laurens said, "Some new ideas on the name have been expressed that were not previously available."

- Approved in executive session and rati-

fied publicly two honorary degrees. Names were withheld pending acceptance.

- Accepted a gift to establish the William A. Kenyon and Alice S. Kenyon Scholarship. Action on a resolution actually setting up the scholarship was delayed until the administration can determine if the fund can be managed by the Clemson University Foundation rather than by the state treasurer.

- Ratified mail-ballot action awarding a \$316,493 contract to The Alpha Company of Anderson to complete spectator boxes at Memorial Stadium. A combination of athletic department operating revenues and revenues from leasing the boxes will fund the project.

- Ratified mail-ballot action appointing J. Charles Jennett as dean of the College of Engineering. Jennett will assume his duties July 1.

- Ratified mail-ballot action approving penalties for weight and other irregularities recommended by the department of fertilizer inspection and analysis. The department's work is part of the regulatory activity Clemson conducts for the state.

- Granted a highway easement needed to relocate Madden Bridge on S.C. 15 near Central; a utility easement near Florence; and an easement near Clemson needed to install a warning siren required in the event of an emergency at the Oconee Nuclear Station.

#### ELECTIONS WILL HIGHLIGHT CREDIT UNION MEETING

The State Employees Credit Union will meet Saturday (April 25) in Columbia to elect three members to the Board of Directors, three to the Supervision Committee and three to the Credit Committee.

Any Credit Union member in good standing for 90 days or more will be eligible to vote at the annual meeting planned for 10 a.m. at the Town House Motor Inn, 1615 Gervais

"At the present time, approximately 25 percent of the total membership and savings deposits of the Credit Union are from members in the Upstate area," says the University's assistant vice president of financial management Tom Harbin.

"However, we do not have any elected officials representing either the upper or lower area of the state."

"I would urge every Credit Union member employed by Clemson to attend the annual meeting Saturday and exercise the right to vote," Harbin says.

#### CALHOUN DOCUMENTS NOW ON DISPLAY

Six of 10 John C. Calhoun historical documents found in Tillman Hall last year are now on display in the Byrnes Room of the library.

Workers discovered the documents in March 1980 while preparing Tillman for renovation. The workers popped open a ceiling vault hiding several filing cabinets filled with old papers, says Richard Meyer, acting director of libraries.

Among the papers were Calhoun's oath of office and appointment as U.S. secretary of war, his appointment as U.S. secretary of state and his certificate of election as U.S. vice president.

After the S.C. Department of Archives and History cleaned and restored the documents, they were turned over to the library's Special Collections section for safekeeping and exhibition.

Also in the vault were several handwritten polkas by Thomas Green Clemson, the first evidence that he composed music.

"They (the polkas) are important in that

something new was discovered about the founder of this University," says Meyer.

Meyer says most of the other papers found in the vault are financial records and of limited interest, but the library is searching through them for more documents of historical value.

The Byrnes Room is open 8 a.m. - 5 p.m. on weekdays and Saturdays and 2-5 p.m. on Sundays.

#### EMPLOYEE HONORED DURING SECRETARIES WEEK

This is Secretaries Week, and to celebrate the Foothills Chapter of Professional Secretaries International has named Lynn McClain, a secretary in the University's Plant Pest Regulatory Service, "Secretary of the Year."

The Foothills Chapter, whose membership is open to all secretaries in Oconee and Pickens counties, honored McClain Saturday (April 18) at a brunch at Farmer's Hall Restaurant in Pendleton.

McClain also recently was elected president of the chapter and will assume office June 1. She has been a member of the Foothills Chapter for two years and a University employee for five.

Also as part of its tribute to secretaries in all professions -- including the more than 600 clerical support personnel at the University -- the chapter will sponsor a luncheon and fashion show Wednesday (April 22). The event will be 11:30 a.m. - 1:30 p.m. at the Holiday Inn on Highway 123. Tickets will be \$5. If you need more information, call McClain (ext. 3006).

Professional Secretaries International is a worldwide organization devoted to education and professional improvement in the secretarial field, says McClain.

RECAP OF FOUNDER'S WEEK -- The University awarded its first Thomas Green Clemson Medallions to Thomas Hunter, Frank Jervey and Sen. Strom Thurmond at a banquet Thursday night, April 9.

Hunter, '09, engineer and businessman, established the first fully endowed chair in the University's history through a deferred gift of \$500,000.

After he retired from a career in the Army in 1953, Frank Jervey, '14, returned to Clemson, where he served as vice president for development from 1959 to 1963 and as a life trustee from 1965 to 1975.

Strom Thurmond, '23, a 25-year veteran of the U.S. Senate, is chairman of the Senate Judiciary Committee and, as President Pro Tem of the Senate, is fourth in the presidential succession line.

The Clemson Medallion (shown here), the highest public honor anyone can receive from the University, honors the school's founder, Thomas Green Clemson, who willed his plantation and part of his fortune to the state of South Carolina when he died in 1888.

At a luncheon Thursday, April 9 (not Wednesday, as reported in last week's "Newsletter"), the University recognized two long-time staff members--Joe Sherman and Frank Howard--by elevating them to "emeritus staff" status.

Sherman, '34, is credited with founding of the University's first communications program for both sports and general academic news. After graduation, he be-

came full-time sports publicity director and later began the additional news service for general college activities. Away from the University from 1947 to 1956, Sherman returned to direct the newly created department of alumni and public relations. He retired as director of alumni relations in 1977.



Howard, head football coach at Clemson from 1940 to 1969, was cited as "the man who put Clemson University and the state of South Carolina on the college football map." He came to Clemson in 1931 and, in his 30 years as head coach, produced six ACC titles. Stepping down in 1969, Howard retired from the University in 1974.

At the Honors and Awards Luncheon Wednesday (April 8), John B. Gentry, a professor of education, Pickens County school trustee and, from 1957 to 1976, University personnel director, became the non-student recipient of the Algernon Sydney Sullivan Award, one of the University's top nonacademic awards. The Sullivan medal recognizes distinguished service to humanity and the Clemson community.

Eight students were also honored at that luncheon. The students and their awards are: Oscar F. Lovelace, the Algernon Sydney Sullivan award; Larry M. Allsep, the Trustees Medal; Clinton E. Hamlin, the Phi Eta Sigma award; Susan L. Maxwell, the American Association of University Women award; Linda D. Cox, David N. Mahoney, Joseph B. Tedder and Joseph R. Wofford, the Phi Kappa Phi awards. Later that day, at ceremonies held in each of the colleges, between 1000 and 1200 students were honored for excellence in their fields of study.





Hunter



Gentry



Jervey



Thurmond



Howard, Sherman



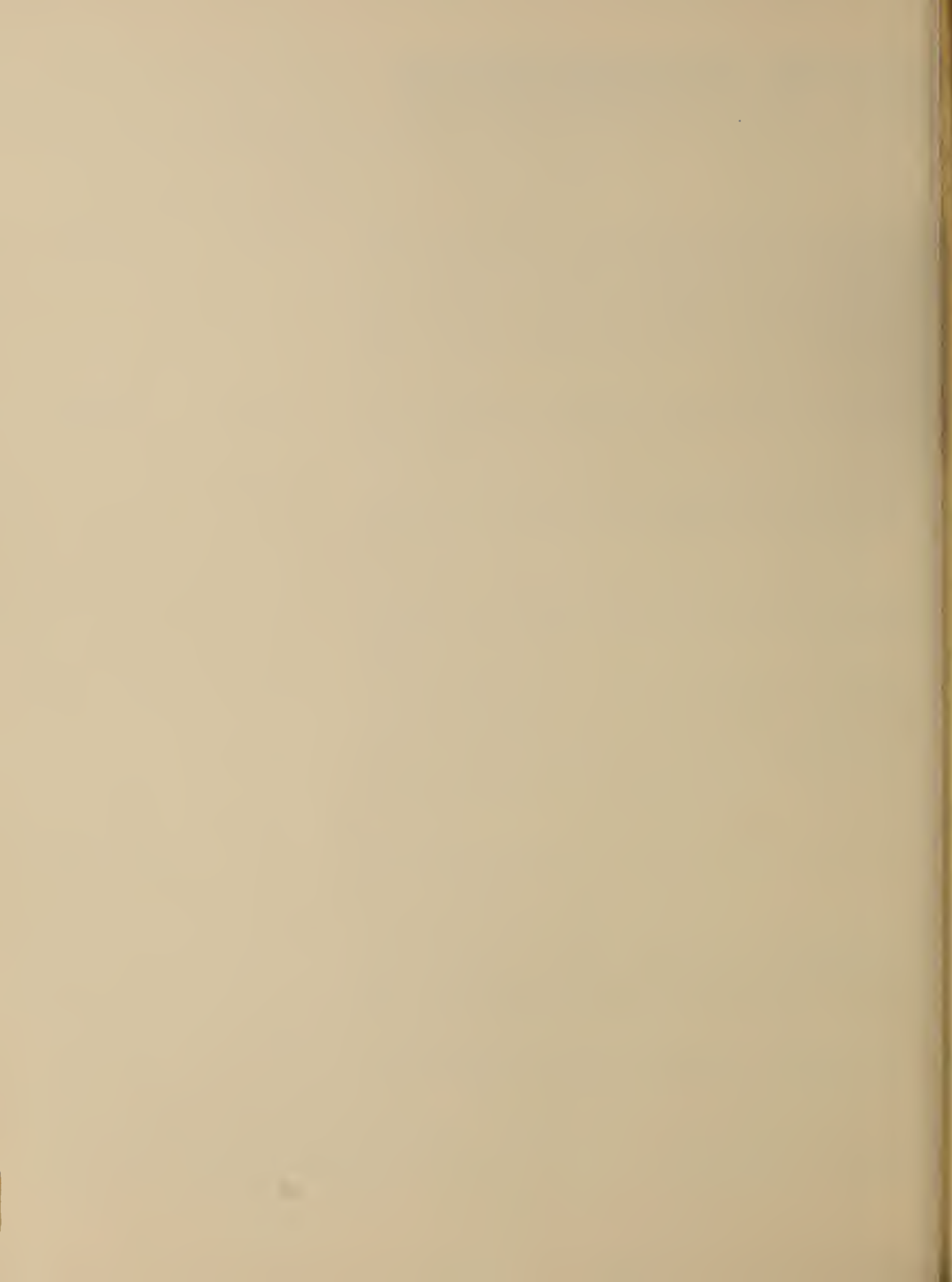
# THIS WEEK AT CU

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April 27 - May 3

- |               |       |                                                                                                                                                                                                                                                                                                                                                           |
|---------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EXHIBITION    | 27- 8 | "MFA Thesis Exhibition," a review of work representing two to three years of study by graduate students in the department of visual studies. Sponsored by College of Architecture and Clemson Architectural Foundation; Rudolph E. Lee Gallery, open 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays, closed Saturdays; call 656-3081 for more information. |
| WORKSHOPS     | 28-29 | "Effective Use of Finishes." Sponsored by Office of Professional Development; call 656-2200 for more information.                                                                                                                                                                                                                                         |
|               | 28- 7 | Training course for 35 Corps of Engineers civil works employees. Sponsored by department of recreation and park administration; call 656-3400 for more information.                                                                                                                                                                                       |
|               | 30    | "Principles of Nursing Intervention for Cardiac Crises." Sponsored by College of Nursing's continuing education department; call 656-3079 for more information.                                                                                                                                                                                           |
|               | 30- 1 | "Conflict Resolution." Sponsored by Office of Professional Development; call 656-2200 for more information.                                                                                                                                                                                                                                               |
|               | 1- 2  | "Cardiopulmonary Resuscitation (CPR)." Sponsored by College of Nursing's continuing education department; call 656-3079 for more information.                                                                                                                                                                                                             |
| GENERAL NOTES | 27    | Videotape: "Blondie." Sponsored by University Union; loggia; shown on request.                                                                                                                                                                                                                                                                            |
|               | 27    | Final examinations begin.                                                                                                                                                                                                                                                                                                                                 |
|               | 28- 7 | "College Week for Senior Citizens." Sponsored by S.C. Commission on Aging, S.C. Cooperative Extension Service and department of recreation and park administration; call 656-3400 for more information.                                                                                                                                                   |
|               | **    | Six Flags tickets on sale. University Union Program Office, loggia, 8:30 a.m. - 4:30 p.m. weekdays.                                                                                                                                                                                                                                                       |





April 28, 1981  
Vol. 20, No. 24

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



CLEMSON UNIVERSITY LIBRARY  
MAY 4 1981



Rembert Dennis

Guy Hutchins

## HUTCHINS AND DENNIS WILL RECEIVE HONORARY DEGREES AT COMMENCEMENT

Clemson alumnus Guy S. Hutchins and State Senator Rembert C. Dennis will receive honorary degrees May 8 during spring commencement exercises.

President Bill Atchley announced Friday that both men have accepted the Board of Trustees' invitation, approved April 10, to receive the degrees.

Hutchins will be honored for his contributions to the cultural enrichment and growth of South Carolina and the South through a lifetime devoted to music.

Dennis will receive an honorary degree in recognition of his service to South Carolina as a state government leader for more than two decades.

Hutchins founded and directed three symphony orchestras in the state (in Spartanburg, Greenville and Florence) and was assistant director of the Charlotte (N.C.) Symphony Orchestra in the late 1940s.

A Spartanburg native, he attended Wofford College and then came to Clemson. While a student here he directed the band and glee club and organized and directed a

small symphony orchestra.

He also was a charter member of "The Jungaleers," a student jazz band.

He graduated from Clemson in 1928 and went on to study for a year at the Curtis Institute of Music in Philadelphia.

He returned to South Carolina and became "a musical missionary" to the state's communities and aspiring musicians.

In 1958, while teaching music and directing school bands and church choirs in Camden, Hutchins was beaten almost to death by a gang of hoodlums upset because he had mixed choirs of whites and blacks for the presentation of a large oratorio.

Following that incident, he went to New York to join the music faculty of Syracuse University for a few years. He then came back to his home state to become a member of the University of South Carolina's music department.

He retired from USC in 1975.

"Mr. Hutchins is a distinguished musician, a pioneering music educator and a great humanitarian," Atchley said. "He has devoted his life to the cause of music education and enjoyment."

"Clemson University is honored to have this opportunity to recognize this outstanding citizen," Atchley said.

Rembert Dennis was first elected to the state's House of Representatives in 1938. He served two terms in the House and then was elected to the State Senate in 1942.

The Berkeley County native has been a senator ever since and is now chairman of the Senate Finance Committee and a member



of the State Budget and Control Board.

Dennis is a graduate of Furman University. He attended law school at Georgetown University and received his degree in law from the University of South Carolina in 1940.

"Rembert Dennis is a staunch guardian of state government's fiscal integrity," said Atchley. "His wisdom and leadership have helped protect South Carolina's Triple A credit rating in the nation's financial markets.

"He has not only been a proponent of operating state government on a balanced budget each year, but has protected the state from making long-term financial commitments which would have been difficult to manage in future years."

Atchley continued, "That Senator Dennis loves this state dearly is evidenced by the fact he has devoted his entire adult life to serving South Carolinians from the highest positions in state government.

"He has given unselfishly of his time, talents and abilities to the state, and we at Clemson are proud to pay tribute to him.

"He is indeed a great South Carolinian."

#### SURVEY SHOWS PROFESSORS ATTITUDES TOWARD TEACHING SUMMER SCHOOL

Results of a survey on ways to improve summer school teaching indicate that University faculty members think that summer school should be promoted better, and that "pay should be commensurate with that earned during the rest of the year."

Malcolm Skove, Alumni Professor of Physics coordinated the survey, which drew nearly 300 responses.

The survey was sponsored by the Clemson Chapter of the American Association of University Professors. Skove is a member of the board of the AAUP as well as chairman of its ad-hoc committee on summer school.

As to how pay should be handled, 118 respondents agreed that fees should be set to guarantee faculty 22% of nine months salary. Also, most professors (183) said that summer salaries should not be independent of academic-year salaries.

"Respondents saw advertising, increased offerings and a changed schedule as the best ways to increase summer school enrollment," says Skove.

Some general opinions voiced by professors are that the needs of co-op students are neglected, that summer school is not expanded because dorm space is needed for more lucrative sports clinics, and that more funds are needed for labs, field trips and other items and activities which are not now budgeted.

Also, "most professors said that they think a summer school director is not needed," says Skove.

The survey results, says Skove, have been given to Jerry Reel, assistant to the provost, who is in charge of summer school.

Also, Skove will write a position paper to be given to the administration in the fall.

#### CLEMSON, FURMAN SIGN DUAL DEGREE AGREEMENT

Officials of the College of Engineering have announced plans to offer dual degree programs in conjunction with Furman University and Livingstone College, a traditionally black institution in Salisbury, N.C.

Under the plan, a student can take a three-year pre-engineering course at the participating school and then transfer to Clemson. After completing both programs, the student receives a bachelor's degree from each school.

The new arrangements are identical to other agreements already in place with several other schools, both public and private, including Presbyterian, Lander and Newberry colleges.

According to James L. Edwards, assistant to the dean of engineering, the dual degree option is not widely used by students. It takes five years or more to complete the program, after which students have two undergraduate degrees.

"It's helpful for students who may not be ready for a large university or who want to stay close to home for one reason or another," he says.

"It's also for students who feel it's an advantage to have two degrees, one in liberal arts and one in engineering, but that option's available to them at Clemson as well."

#### PROFESSOR DOES RESEARCH FOR NASA SPACE SHUTTLE

Like many Americans, Ray Thompson, assistant professor of materials engineering, was sitting in front of a television set last week watching the space shuttle Columbia touch down in the California desert.

But Thompson has a special interest in the vehicle. He has spent much of the last three years doing research for NASA on the metal alloys used in the shuttle's engines.

He'll return to Alabama's Marshall Space Flight Center for three months this summer to continue his work.

"They got the bird in the air and got it back home," was his reaction to the shuttle's maiden flight. But he says NASA engineers still have a big job ahead as they try to extend the vehicle's life to 50 or more flights.

"For the shuttle to live up to its promise it's got to be reusable 50 to 60 times without having to replace the main engine components," Thompson says. "They're up to a maximum of about five now."

Thompson says the shuttle's main engines are in use for only about eight minutes during each flight. An engine would

run seven hours, then, over a lifetime of 50 or so missions.

Because of materials failures, however, the longest actual engine test so far has been less than one hour long.

Thompson's research involves heating the metal alloys almost to their melting point, stretching them and then studying the failures that result. He uses an electron microscope to photograph tiny fissures in the metal too small to be seen with the naked eye.

"The cracks you can see don't bother you. You know they're there," he says. "It's the cracks you can't see that you have to worry about."

#### NEW EMPLOYEES JOIN NEWS SERVICES STAFF

Two new employees have recently joined the news services staff in the department of information and public services.

Tom Shealey is now Experiment Station editor. He previously was managing editor of the Seneca Journal and also has worked for the Richland Northeast, a Richland County weekly. He is a graduate of the University of South Carolina, and while in college he served on the staff of the Gamecock, USC's student newspaper, and as a stringer for Associated Press.

Cathy Sams has become associate Experiment Station editor. A Phi Beta Kappa graduate from USC, she interned at the Greenwood Index-Journal while in college and has free-lanced some 20 special supplements for the Anderson Independent and Daily Mail. She also served for the past two years as head of the information

office at Anderson Junior College.

#### PARKING PLAN SET FOR FALL RETURN

The parking plan for the first week of fall semester will contain few surprises, says Bill Pace, assistant dean of student life.

To accommodate students moving into the dorms, some employee parking spaces will be reserved for unloading, says Pace.

On Sunday, Monday and Tuesday, Aug. 16-18, the east end of the Physical Plant lot, the north end of the Serrine lot, and all of the spaces on South Palmetto Boulevard from Highway 93 to the Alumni Park will be reserved for returning students.

Says Pace, faculty and staff members should avoid parking in those areas by using resident student lots on Perimeter Road on East Campus, below Cemetery Hill south of Earle Hall, and west of the football stadium. Vans will shuttle from these lots every 15 minutes from 7 a.m. to 5 p.m. Aug. 16-18.

No employee spaces will be reserved for students Wednesday and Thursday, Aug. 19 and 20, says Pace, because the availability of faculty and staff parking is crucial during registration. Also, overflow parking will be available for faculty, staff and visitors from 7 a.m. to 5 p.m. those days.

Parking procedures will return to normal Friday, Aug. 21, says Pace.

If you need more information, call Pace (ext. 2270).

#### AGRICULTURAL ENGINEERING

Joe E. Bunn (Prof) received a grant of \$6,000 from the South Carolina Soybean Board to continue work in "Storage of Seed Soybeans."

John A. Collier (Asst Prof) obtained a grant of \$10,000 from the South Carolina Coastal Council and a \$10,000 grant from the South Carolina Marine Resources Department for continuing research on oyster harvest mechanization.

Roy B. Dodd (Instr) and Melvin K. Richardson (Prof, ME) received a grant of \$22,804 from John Deere for a study, "Foreign Object Detection for Forage Harvesters."

Kurt Ladenburg (Vstg Prof) received a grant of \$1,500 from the South Carolina Sea Grant Program to initiate a study, "Cattails, A Potential Energy Source."

Jerry R. Lambert (Prof) is on a six-month sabbatical leave at the Technion in Haifa, Israel where he holds the Mansfield Chair in Engineering. Prof. Lambert's objectives are to teach and advise on the use of personal computers in agriculture, and to initiate research in tool tillage-soil-plant interactions.

Prof. Lambert has obtained additional funding of \$15,000 for the project, "Irrigation Scheduling Models for Efficient Use of Water and Energy."

#### AGRICULTURAL ECONOMICS

H.M. Harris (Prof) and S.E. Miller (Asst Prof) presented a paper, "An Analysis of Cash Contracting in South Carolina," at the National Conference on Grain Marketing Patterns, Memphis, Tenn., March 12-13.

J.C. Hite (Prof) served as a member of a national panel of economists, sociologists, political scientists, and agronomists convened to determine priorities in soil and water conservation policy research at Madison, Wis., Feb. 22-27.

#### ANIMAL SCIENCE

R.G. Godbee (Assoc Prof) presented on invitation a paper, "Feeding the Growing Horse," at the Georgia Horse Breeders Short Course, University of Georgia, Athens, Ga.

John C. Spitzer (Assoc Prof) presented a lecture, "Breeding Soundness in Bulls," March 2 to the Saluda County Cattlemen's Association and on March 16 to the Edgefield County Cattlemen's Association.

Prof. Spitzer was awarded an unrestricted grant for \$1,500 for research in bovine reproductive physiology from Select Sires, Inc., Plains City, Ohio.

G.C. Skelley (Prof), G.E. Fandino, L.L. Grimes (Asst Prof) and K.K. Hale



(Assoc Prof) presented a paper, "Vacuum Packaging and Chlorination of Fresh Boneless Pork Loins," at the Southern Section of American Society of Animal Science, Atlanta, Ga., Feb. 1-4.

## ARCHITECTURAL STUDIES

At the invitation of the U.S. Air Force, graduate students of Frederick Roth (Prof) and Yuji Kishimoto (Assoc Prof) designed alternatives for a new aircraft hangar-museum for the jet performance team The Thunderbirds. Air Force officials have visited Clemson to review the students' work, and six students went to Nellis Air Force Base, Nev., to make presentations.

## BIOCHEMISTRY

J.M. Shively (Prof & Hd) presented seminars, "Carboxysomes, Ribulose-bisphosphate, and the Fixation of Carbon Dioxide in autotrophic Microbes," at the University of Florida and at Florida State University during the week of Feb. 16.

## BIOLOGY

Doris Helms (Assoc Prof) participated as a discussion leader and consultant in a seminar for Advanced Placement Biology teachers from the Atlanta area, offered by the Educational Testing Service, March 26.

William Surver (Asst Prof) received a stipend from Paine College and Medical College of Georgia to attend their Sickles Cell Education Program, Augusta, Ga., March 4-6.

At the 54th annual meeting of the S.C. Academy of Science March 26-28 at the University of South Carolina in Columbia, the following occurred:

--David Stroup (Asst Prof) and Prof. Surver served as judges for the Jr. Academy papers.

--Prof. Surver presented a paper, "Biological Studies of the kelp fly, Coelopa frigida."

--Sharon Miller (Asst Prof) presented

information regarding the new summer school mini-courses for high school biology teachers to be offered by the biology program to the S.C. Association of Biology Teachers spring meeting.

--Prof. Surver and Prof. Helms chaired a meeting of S.C. General Biology Professors and Instructors to discuss current high school competency requirements, and where appropriate, make recommendations for change. It was proposed that this group meet yearly with the Academy of Sciences to discuss current problems in General Biology.

More than 850 South Carolina secondary school students and teachers participated in the 2nd annual Biology Merit Contest here April 3. Henry Vogel (Dean), George von Tungelin (Coord, Spec Prog, Col of Agric), and Thomas E. Wooten (Alum Prof, For) participated in the general convocation, David Maxwell (Provost) greeted participants at the awards presentation, and Sharon Miller (Asst Prof) gave the banquet speech, "Adventures in the Galapagos."

## CHEMICAL ENGINEERING

Dan D. Edie (Assoc Prof) has been awarded a one year research contract for \$19,900 from the Allied Corporation. The research will involve a study of threadline dynamics during the extrusion and quenching of synthetic polymers.

## CHEMISTRY

R.A. Abramovitch (Prof and Hd) chaired the Chemistry Session at the South Carolina Academy of Sciences meeting in Columbia, March 27.

Also at that meeting, N.P. Marullo (Prof) presented a paper, "A Simple One-Step Synthesis of Metal-Free Phthalocyanines."

At the 181st National Meeting of the American Chemical Society, Atlanta, Ga., March 30 - April 3, the following papers were presented:

--"Some Reactions of Benzisothiazole 1, 1-Dioxides," Prof. Abramovitch and B.



Mavunkel (Res Assoc).

--"B-Acylamination of Nitrones," Prof. Abramovitch, Dorota Abramovitch (ex-Grad Stu) and Herman P. Beneke (Vstg Sci).

--"Synthetic Approaches to Polyhydroxyarogfurans," J.W. Huffman (Prof), and G.F. Hillenbrand (Grad Stu).

--"Perturbative Improvements in Molecular Hartree-Fock Energies," Keith McDowell (Assoc Prof) and Lynn Lewis (Grad Stu), poster talk.

--Application of Quantum Monte Carlo to Molecular Systems," Prof. McDowell, poster talk.

--"Polymerization of Bis-Phthalonitrile. Metal Free Phthalocyanine Formation," Prof. Marullo and A.W. Snow (Naval Research Lab., Washington, D.C.).

--"Properties of Cured Diether-Linked Phthalocyanine Resins," Prof. Marullo, R. Ting, T. Keller, P. Beyser, C. Poranski and T. Price (NRL, Washington, D.C.).

--"Stereochemical Consequences of the Ligand Field Photolysis of  $d^6 M(chel)_2 X Y^{n+}$  Complexes," Stephen Clark (Grad Stu) and John Petersen (Asst Prof).

--"Preparation, Bonding, and Photochemistry of Mixed Metal Dimers Containing the Pentacyanoferrate (II) Moiety," Kathy Pfenning (Grad Stu), Liangshiu Lee (Grad Stu) and Prof. Petersen.

Prof. McDowell attended the 1981 Sanibel Symposia March 9-13 and presented a poster, "Application of Quantum Monte Carlo to Quantum Chemistry."

A.R. Pinder (Calhoun Prof) and C.A. Miller (Former Grad Stu) presented a paper, "The in vitro and in vivo Rearrangement of Eudesmanes to Eremophilanes" at the 8th International Congress of Essential Oils at Cannes, France, October 1980.

Prof. Pinder published an article, "Pyrrolidine, Piperidine and Pyridine Alkaloids," in Specialist Periodical Reports,

The Alkaloids, 10, (1980) 30.

Prof. Abramovitch, W.D. Holcomb (Grad Stu) and S. Wake (Postdoctoral Fellow) published a paper, "The Decomposition of  $\beta$ -Phenethylsulphonyl Azides. Solution Chemistry and Flash Vacuum Pyrolysis" in the Journal of the American Chemical Society, 103, (1981) 1525-1533.

Prof. Abramovitch was in Israel March 13-23 when he was involved in discussions of cooperative research under the sponsorship of the U.S.-Israel Binational Foundation with Prof. D. Ben Ishai of the Technion in Haifa. He presented a seminar, "Benzisothiazole 1, 1-Dioxide: Synthesis and Transformations."

#### CIVIL ENGINEERING

The National Bureau of Standards published a 76 page Technical Note (No. 1135), "Cooling of Bitumen During Construction of Built-up Roofing Systems - A Mathematical Model," co-authored by Herbert W. Busching (Prof and Hd).

Prof. Busching received a \$15,000 grant from Hercules Incorporated to conduct research on abrasion of fiber-reinforced, asphaltic slurry seals used in highway pavements. The project will be completed in approximately 6-8 months.

#### CONTINUING EDUCATION

Ann Rawlings (Vstg Instr) presented a seminar, "Sleep Deprivation in Critical Care," Feb. 20, at the request of the Division of Nursing, Bob Jones University.

#### DAIRY SCIENCE

F.E. Pardue (Prof) coordinated and conducted a series of "Small Grain Silage Seminars" in Sumter, Orangeburg, and Clinton March 3-5. John Williams (Prof, An Sci) and Leonard R. Allen (Assoc Prof, Agron) presented subject matters at each seminar.

#### ELECTRICAL & COMPUTER ENGINEERING

Silvia G. Cathey (Instr) was co-organizer with Barbara Eggers of Digital Equipment

Corporation of the Western Carolina Section of the Society of Women Engineers (SWE). This is the first South Carolina section. During officer elections in March, Ms. Cathey was elected president.

#### ELEMENTARY & SECONDARY EDUCATION

Alice Derr (Asst Prof) presented a paper of research results, "How Learning Disabled Adolescents Make Moral Judgments: Implications for Educations" at the Association for Children with Learning Disabilities International Conference, Atlanta, Ga., Feb. 20.

#### ENGINEERING TECHNOLOGY

Carl R. Lindenmeyer (Assoc Prof) co-chaired a two day conference, "Small Computers and the Industrial Engineer," co-sponsored by Chapter 118 of the American Institute of Industrial Engineers and the Department of Engineering Technology, March 25-26, Sheraton Motor Inn, South Church Street, Greenville.

Prof. Lindenmeyer presented a four day seminar/workshop, "Work Methods and Standards for Shop Personnel" at the Chrysler Center, University of Michigan, Ann Arbor, Mich., March 16-19. The program was attended by management representatives from two steel product companies as well as organized labor representatives from the Steel Workers' Union.

#### ENGLISH

Sterling Eisiminger (Assoc Prof) published "Ethnic and National Stereotypes and Slurs" in American Humor (Fall 1980).

Prof. Eisiminger published an article, "The Love Poems of Guy Owen" in the annual of Pembroke Magazine and read a selection of his poems at Winthrop College April 1.

John Idol (Assoc Prof) read "'Meeting-Points of Sympathy' in The Marble Faun" at the meeting of PAC and was elected to serve on the association's board of directors.

M. Thomas Inge (Prof and Hd) delivered

the banquet address on American Comic Art at the Eleventh Annual South Carolina State Highway Conference sponsored by the College of Engineering at Clemson March 5.

William Koon (Assoc Prof) published an article, "There's Poetry In Them Lyrics," in Atlanta Weekly, March 15. He reviewed Barry Targan's novel, Kingdoms, in Library Journal, Feb. 15.

Ronald Moran (Prof) reviewed Frank Kermode's Wallace Stevens in The Wallace Stevens Journal (Fall 1980), 68-69.

Harold Woodell (Assoc Prof) published an article, "Guy Owen and the Southwest Humor Connection" in Pembroke Magazine, 13 (1981), 19-25, and a review of Toni Morrison's Tar Baby in The State, p. 13-B, April 5.

Edward P. Willey (Assoc Prof) published "Rorschach for Rednecks," "The Steel Mirror," "Blue Patron," and "Gastrovision," four poems, in Newscribes, 5 (1981) and "Stains" in The Locust Post (Fall 1980).

The following members of the English department participated in the Eleventh Annual Convention of the Popular Culture Association, Cincinnati, Ohio, March 26-29:

--Loretta Carrillo (Asst Prof) read a paper, "Ballet, Balletomanes, and Balanchine: Recent Popular Interest in American Ballet."

--Prof. Inge chaired a panel, "Researching the Stars: Bibliographic Problems in Popular Culture."

--Prof. Koon discussed his research on "Hank Williams."

The following English faculty read papers or participated in programs at the Fifth Annual Meeting of the Philological Association of the Carolinas, Charlotte, March 12-14:

--Mark Charney (Instr), "A Tale Thrice Told: A Study of Arthur Miller's The

Misfits in its Short Story, Cine-Novel, and Film Forms.

--Gerard Plecki (Asst Prof), "Being There: The Fate of the Protagonist in the Novel and Film."

--Prof. Idol, "Meeting-Points of Sympathy in The Marble Faun."

--Robert Ross (Assoc Prof), "'Bartleby the Scrivener': An American Cousin."

--Richard Calhoun (Prof) gave remarks about Hugh Holman.

--Prof. Inge, "Jessee Stuart and His Literary Tradition."

--Hallman B. Bryant (Assoc Prof), "Poetry into Painting: The Pre-Raphaelite Brotherhood and the 'Sister Arts Tradition.'"

#### ENVIRONMENTAL SYSTEMS ENGINEERING

R.A. Fjeld (Assoc Prof) presented a paper, "The Application of Measurements of Aerosol Charge Acquisition by Bipolar Ions to the Problem of Back Corona," at the Third EPA Symposium on the Transfer and Utilization of Particulate Control Technology, Orlando, Fla., March 9-12. R.O. Gauntt, G.J. Laughlin and A.R. McFarland of Texas A&M University were co-authors.

Alan Elzerman (Asst Prof) recently spoke on "Acid Rain in the Southeast: Is there a Problem?" at the Savannah River Ecology Laboratory in Aiken, and presented a paper on preliminary results of acid rain studies in Western S.C. at the S.C. Academy of Sciences meeting in Columbia.

Also at that meeting, John Mathew (Res Assoc) and Prof. Elzerman presented a paper, "Gas-Liquid Chromatographic Determination of Some Chloro and Nitrophenols by Direct Acetylation in Aqueous Solution."

#### EXTENSION HOME ECONOMICS

Rose J. Davis (Assoc Prof) was an invited speaker at the Fifth National Seminar,

Nutrition in Pregnancy, presented by the University of Louisville, School of Medicine and the Department of Health and Human Services, March 9-11. Davis spoke on "Educating Your Patient" and conducted two workshops on "Working With Your Patient."

#### FORESTRY

B.A. Dunn (Assoc Prof) and S.M. Jones (Res For) have published the paper, "Geographical Distribution of Shortia galacifolia in Oconee and Pickens Counties, South Carolina," in the Journal of The Elisha Mitchell Scientific Society, 95, No. 1.

D.C. Guynn (Assoc Prof) presented a paper, "Trapping Satisfactions of Mississippi Trappers," and co-authored and presented, "Use of Trapper Harvest Data to Meet ESSA Information Needs" at the Southeastern Association of Fish and Wildlife Agencies Conference, Nashville, Tenn.

The Southeast Section of The Wildlife Society recently presented Prof. Guynn with an award for the Best Conference Paper of the 1979 Wildlife Technical Sessions. The paper was "Differences in Age Structure of White-tailed Deer in Mississippi Produced by Two Aging Techniques."

Prof. Guynn presented the paper, "Regulation of Deer Harvest on Private Lands in East-Central Mississippi," at the Southeast Deer Study Group meeting, Panama City, Fla.

Also at that meeting Prof. Guynn co-authored and presented the papers, "The Deer Club Association: An Efficient and Manageable Unit" and "Soil Phosphorus as a Site Index for Deer Management."

R.A. Harris (Asst Prof) published the paper, "Survey of Different Combustion Systems," in the symposium proceedings, "Wood as a Commercial Energy Source in Virginia." The symposium was sponsored by the Virginia Lumber Manufacturing Association and the VPI Extension Service.



G.D. Kessler (Prof) presented the paper, "Enlisting Resource Workers at the Local Level," at the Southern Forest Institute Annual Meeting held at New Orleans, La.

T.E. Wooten (Prof) and R.S. Helms (Res Asst) published the paper, "Paper Mulches for Vegetation Control in Christmas Tree Plantations," as Department of Forestry, Forestry Bulletin Number 23.

## HISTORY

Elizabeth Carney (Asst Prof) presented a paper, "Regicide in Macedonia," at the meeting of the Classical Association of the Midwest and South, St. Louis, Mo., April 3.

Richard M. Golden (Assoc Prof) was the commentator on three papers at a session, "Rural Religion in France," at the annual convention of the Society for French Historical Studies, Bloomington, Ind., March 13.

Prof. Golden reviewed James F. Traer, Marriage and the Family in Eighteenth-Century France, in History: Reviews of New Books, 9 (Feb. 1981), 105-106. Prof. Golden also reviewed Marie-Sylvie Dupont-Bouchat, Willem Frijhoff, and Robert Muchembled, Prophetes et sorciers dans les pays-bas, XVIIe-XVIIIe siecles, in the Journal of Interdisciplinary History, XI (Spring 1981), 722-24.

Leonard Greenspoon (Asst Prof) published an article, "Ars Scribendi: Max Margolis' Paper 'Preparing Scribe's Copy in the Age of Manuscript,'" in Jewish Quarterly Review, NS 71 (1981) 133-150.

John W. Johnson (Assoc Prof) has published a book, American Legal Culture, 1908-1940 (Westport, Connecticut: Greenwood Press, 1981). He has also published a review of John Semonche's Charting the Future: The Supreme Court Responds to a Changing Society, 1890-1920 in The Historian, November, 1980. Johnson also delivered a paper, "Insuring Against the Apocalypse: Nuclear Energy, the Price-Anderson Act and the Courts," at the Annual Meeting of the Organization of American Historians in Detroit, Mich.,

April 4. Johnson received a National Endowment for the Humanities Summer Stipend to continue his research on the legal aspects of nuclear energy.

Charles H. Lippy (Assoc Prof) participated on a panel discussing "The World Religions Course" at the annual meeting of the Southeastern Region, American Academy of Religion, Atlanta, Ga., March 14.

William Maker (Asst Prof, Phil) published a review of Sein und Schein: Die Kritische Funktion Der Hegelschen Logik by Michael Theunissen in "The Owl of Minerva" Quarterly Journal of the Hegel Society of America, 12, (March 1981), No. 3.

## HORTICULTURE

The following presentations were made by members of the Horticulture Department at the South Carolina Lawn and Turfgrass Association Short Course recently held in Columbia.

--"Irrigation of Landscape Plants," J.R. Aitken (Prof).

--"Introduction of New Landscape Plants," D.W. Bradshaw (Asst Prof).

--"Lessons from the Summer of 1980," J.P. Fulmer (Prof).

--"Practical Colorful Plantings," E.V. Jones (Assoc Prof).

--"Turf Fertilization," A.R. Mazur (Assoc Prof).

--"Weed Control in Turf and Variety Evaluation of Turfgrasses," L.C. Miller (Assoc Prof).

## INDUSTRIAL MANAGEMENT

Gerald L. Waddle (Assoc Prof) presented a paper, "Psychic Income and the Small Business Entrepreneur" at the Small Business Institute Director's Association National Conference, New Orleans, La., Feb. 12-14.



## INTERDISCIPLINARY STUDIES

Joon B. Park (Assoc Prof) published the following papers: "The Effect of Direct Electrical Current Stimulation on the Bone/Porous Metallic Implant Interface" with N.N. Salman (Former Grad Asst) in Biomaterials, 1, (1980), 209-213, and "Piezoelectric Ceramic Implants: In Vivo Results," with B.J. Kelly (Former Grad Asst), G.H. Kenner (Assoc Prof), A.F. von Recum (Prof), M.F. Grether (Former Grad Asst, Cer Eng), and W.W. Coffeen (Prof, Cer Eng) in the Journal of Biomedical Materials Research, 15, (1980), 103-110.

Prof. Park also wrote an article with F.W. Cooke (Prof, Hd), "The Graduate Study and Research in Bioengineering at Clemson University," which is published in the Journal of Biomedical Materials Research, 15, (1981) 97-102.

Profs. von Recum and Park have published a review paper, "Permanent Percutaneous Devices" in the CRC Critical Reviews in Bioengineering, (Jan. 1981) 37-77.

## LANGUAGES

Leonard T. Perry (Asst Prof, Span and Ital) published an article, "Larra's View of the Social Classes as Perceived in his 'Articulos'" in the 1980 full edition of the Rocky Mountain Review of Language and Literature.

R.F. Mixon (Asst Prof, Span) and J.B. Romeiser (Asst Prof, French) served as judges in the competition March 13 at Westminster High School as part of the Third Annual Oconee County Foreign Language Festival. Students from language classes of Westminster, Walhalla, and Seneca High Schools took part in various activities and events, including skits, vocabulary tests, spelling bees, and costume design.

## MATHEMATICAL SCIENCES

W. Robert Boland (Prof) was an invited participant at the sixth annual April Science Seminars of Florida A & M University, Tallahassee, Fla., April 9-10. He delivered an address, "The Education of

a Mathematical Scientist for a Career in Government or Industry" and served on a panel devoted to "Science Education-Processes and Projections."

James L. Flatt (Assoc Prof) served as a member of the Southern Association of Schools and Colleges in evaluation of the James F. Byrnes High School in Duncan, S.C., March 14-17. He was in charge of evaluating the mathematics and science programs.

John Kenelly (Prof) spent March 2-3 working with the State of Georgia, University Systems Regents Committee on Mathematics. The state-wide meeting was held in Milledgeville, Ga. to discuss the mathematics curriculum in the University System of Georgia. During the meeting, Prof. Kenelly gave three formal addresses: "The Curriculum Developments in the Mathematical Sciences," "The Case for Mathematical Sciences," and "Change's Change--The Trend Marker."

Prof. Kenelly met with the Mathematical Association of America's Committee on Placement Examinations in Washington, D.C., March 6-7. At the meeting the group reviewed and approved the new placement examinations for use in the MAA National Program and approved the spring issue of The Placement Test Newsletter of which Prof. Kenelly is editor.

Prof. Kenelly met with the Officers of the South Carolina Council of Teachers of Mathematics in Columbia, March 14. At the meeting the officers planned the fall conference for the mathematics teachers in South Carolina. Over 700 teachers are expected to attend the Conference.

Prof. Kenelly chaired a meeting of the College Boards Committee on the Advanced Placement Program in Mathematics, Pittsburgh, Pa., March 19-22. The committee held a conference for the AP Mathematics teachers in western Pennsylvania March 20. Prof. Kenelly presented a talk on the AP Program.

Prof. Kenelly was chairman of the nominations committee at the 60th annual meeting of the Mathematical Association of

America Southeastern Section April 10-11, and also chaired a session of contributed papers.

Stanley M. Lukawecki (Prof) and Richard Ringeisen (Assoc Hd and Assoc Prof) gave a talk, "Careers in Mathematics," to the students at Sea Pines Academy on Hilton Head Island March 9, and administered a high school "Math Bowl" exam at Mims Academy in Harleyville, S.C., March 10.

William H. Ruckle (Prof) has written a book, Sequence Spaces for the series Research Notes in Mathematics published April 7 (Pitman Publishing, Limited, London) 1-198.

Also, Prof. Ruckle published two articles, "Ambushing Random Walks II" and "Ambushing Random Walks III" with John R. Reay (Western Washington Univ.) in Operations Research (Jan./Feb. 1981), 108-120, 121-129.

Douglas R. Shier (Assoc Prof) gave a talk, "Network Algorithms and their Algebraic Structure," at the Mathematics and Statistics Colloquium, University of South Carolina, March 16.

Also, Prof. Shier and K.L. Hoffman (National Bureau of Standards) have published a paper, "A Test Problem Generator for Discrete Linear  $L_1$  Approximation Problems," in ACM Transactions on Mathematical Software, Vol. 6 (1980) 587-593. A companion algorithm (Algorithm 564) also has been published in that journal, pp. 615-617.

Andrew Sobczyk (S. Maner Martin Prof) presented a paper, "Finite Planes, Segments, and Latin Squares," to the South Carolina Academy of Science meeting, Columbia, March 26-28.

John R. Sullivan (Assoc Prof) has written a book for The Barnes and Noble Outline Series, Modern College Mathematics (Harper & Row, 1980).

At the 60th annual meeting of the Mathematical Association of America Southeastern Section at the University of Alabama in Birmingham, Ala., April 10-11, the following participated:

--Daniel D. Warner (Assoc Prof) presented the invited one hour address, "Where Have All the Zeros Gone? Some Old and New Results on the Geometry of Polynomial Zeros," to the General Session 1.

--Andrew Sobczyk (S. Maner Martin Prof) contributed a paper, "Nonexistence of a Pair of Orthogonal Latin Squares," to the Geometry and Algebra Section.

At the Twelfth Southeastern Conference on Combinatorics, Graph Theory and Computing, Louisiana State University, Baton Rouge, March 2-5, the following papers and talks were given:

--"On Symmetric Cyclic and Transitive BIB Designs," William Hare (Prof), John Fulton (Prof and Hd), and Renu Laskar (Prof).

--"On Cycle Bases of a Graph," Richard Ringeisen (Assoc Hd and Assoc Prof), Prof. Shier, and David Cribb (Grad Asst).

--"Construction of  $(r,d)$ -Invariant Chordal Graphs," Prof. Shier and Prof. Laskar.

--"Convexity and Block Graphs," Robert Jamison (Assoc Prof). Prof. Jamison also chaired a session on Computational Graph Theory.

## MUSIC

John H. Butler (Hd, Acting Dean) conducted the orchestra for the Anderson Community Theatre production of the Broadway musical Brigadoon, Anderson, March 26 - April 5.

Lillian U. Harder (Asst Prof) presented a duo-piano recital with Jane Palmer (Asst Prof, Central Wesleyan College) for students at Morrison Elementary School in Daniel Auditorium March 30.

## PHYSICS AND ASTRONOMY

Beverly B. Bookmyer (Prof) and William C. Maddox (Univ of Alabama, Tuscaloosa) have had a paper, "Period Behaviour of V566 Ophiuchi - An Update," accepted for publication in the April issue of Publications of the Astronomical Society of

the Pacific 93, (1981). This research was based on observations made at Palomar Observatory, California, and was supported in part by two grants from the Southern Regional Education Board.

P.B. Burt (Prof) gave a lecture, "Quantized Gravity, Persistent Interactions and Mass Generation," at the University of Georgia, Dec. 9, and also published it in Lettere Al Nuovo Cimento, 30, (1981) p. 345.

Prof. Burt was an invited participant in the Texas Symposium on Relativistic Astrophysics, Baltimore, Md., Dec. 15-19.

W. Edward Gettys (Prof), John R. Ray (Prof) and Ernst Breitenberger (Prof, Ohio Univ.) published a paper, "Bohlin's and Other Integrals for the Damped Harmonic Oscillator," in American Journal of Physics 49, (1981) 162.

H.W. Graben (Prof) presented a colloquium, "The Theory of Liquids," to the physics department at the College of Charleston, March 3.

A.L. Laskar (Prof) and R.W. Blackwell (Former Grad Stu) presented a paper, "Vacancy Diffusion of  $\text{Co}^{2+}$  in Silver Chloride and Ionic Size Effect" at the American Physical Society meeting, Phoenix, Ariz., March 16-20.

Prof. Ray presented a theoretical physics seminar, "Pressure in Statistical Mechanics" at the department of physics and astronomy, University of Georgia, Athens, Feb. 16.

Prof. Ray presented a colloquium, "Invariants for Time-Dependent Nonlinear Dynamical Systems" Jan. 28.

Prof. Ray and James L. Reid (Asst Prof, Univ. of Georgia) published a paper, "Ermakov Systems, Velocity Dependent Potentials and Nonlinear Superposition," in Journal of Mathematical Physics 22, (January 1981), 91.

Prof. Ray and Prof. Reid also published a paper, "Noether's Theorem and Ermakov

Systems for Nonlinear Equations of Motion" in VI Nuovo Cimento 59A, (1980) 134.

Foster B. White (Undergrad Stu), Raymond C. Turner (Assoc Prof) and Joon B. Park (Assoc Prof, Bioeng) presented a paper, "Curing of Bone Cement" at the meeting of the S.C. Academy of Science in Columbia, March 27. Prof. Turner also participated on a panel of college and high school physics teachers preparing High School Physics Competencies for eventual state wide use.

## PLANNING STUDIES

Glenn E. Varenhorst (Assoc Prof) presented a paper, "A Broadened Concept of Land and its Relationship to Society," as a member of a panel on "Land and Society," at the Southern Association of Agricultural Scientists, Rural Sociology Section, Atlanta, Feb. 2.

## POLITICAL SCIENCE

William B. Cody (Vstg Asst Prof) presented a paper, "The Legal and Political Thought of James Wilson," at the South Carolina Political Science Association meeting, April 11.

Also at that meeting, Charles W. Dunn (Prof and Hd) presented a paper, "The Pros and Cons of Debate Methodology."

## PSYCHOLOGY

Rosemary H. Lowe (Asst Prof) led a symposium on the topic, "The Status of Women in Psychology in the Southeast," at the Annual Convention of the Southeastern Psychological Association, Atlanta, March 23.

Also at that convention, DeWayne Moore (Vstg Asst Prof) presented a paper, "A Multidimensional Scaling Analysis of Motives for Not Helping," at the Annual Convention of the Southeastern Psychological Association, Atlanta, March 23.

Prof. Moore has published a paper, "Late Adolescents' Conceptualizations of Home-leaving" in the Journal of Adolescence, 10, (1981) 73-85.



## RECREATION AND PARK ADMINISTRATION

Herbert Brantley (Hd) was awarded the Harold D. Meyer Professional Award at a regional meeting of the National Recreation and Park Association, Asheville, N.C., April 7. The award is to honor and recognize professional persons who have made outstanding contributions to the recreation profession.

Brian J. Mihalik (Asst Prof) has been named to the program committee for a National Recreation and Park Association convention to be held in Virginia Beach, Spring 1982. The committee has the responsibility for organizing, planning and conducting this annual three day conference.

Paul Richard Saunders (Asst Prof) presented a paper, "Diversity Indices for Recreation Planning," jointly authored with G. Wesley Burnett at the Annual S.C. Academy of Science Meeting, Columbia, March 26-28.

Prof. Saunders conducted project reviews for the U.S. Forest Service Recreation Management Short Course in Salt Lake City, Utah, March 9-11; and Albuquerque, N.M., March 23-25.

Prof. Saunders attended the Southeast Recreation Research Meeting in Asheville, N.C., Feb. 19-20, and presented the paper, "Monitoring and Reporting Recreation Use: A Case Study."

## INDUSTRIAL MANAGEMENT &amp; TEXTILE SCIENCE

Hassan M. Behery (Assoc Prof) attended the Textile Institute's Annual Conference, "The Fabric Revolution," March 23-25, at the University of York, England. Prof. Behery served as chairman of the session on elastic fabrics.

Prof. Behery attended the monthly meeting of the Greenville Section of the American Society of Mechanical Engineers, April 2, as a speaker on the topic, "Engineering Limitations in Development in Yarn Manufacturing, Chute Feed and High Speed Carding, High Speed Drawing, Roving, Open-End Spinning and Ring Spinning."

John J. Porter (Prof) presented the "BATEA Report" at the AATCC Symposium, The Textile Industry and The Environment/1981, Washington, D.C., March 30.

## ZOOLOGY

Gayle Pittman Noblet (Assoc Prof) attended the Coordinating Committee Meeting for Research on Internal Parasites of Domestic Animals, Southern Region in Athens, Ga., March 24. Prof. Noblet and Dennis Kyle (Grad Asst) attended the Thirty-fourth Annual Meeting of Animal Disease Research Workers in the Southern States and the Twenty-second Annual Meeting of Southern Conference on Avian Diseases March 25, at the University of Georgia School of Veterinary Medicine in Athens.



# THISWEEK AT CU

May 4-10

## WORKSHOPS

- 4-5 "Managing Burnout: The Organizational Dilemma." Sponsored by Office of Professional Development; call (ext. 2200) for more information.
- 4,5 "Human Potential Seminar," a structured, small group experience designed to help you recognize your positive qualities and apply them to problem-solving. Sponsored by Counseling Center, May 4, 1-6 p.m., May 5, 9 a.m. - 6 p.m. Group limited to 12 participants; for faculty, staff and spouses, women only. Materials charge, \$4.50. Call (ext. 2451) for more information and sign up.
- 4,6 An "Assertiveness Training Seminar" will teach participants to act in their own best interests, stand up for themselves without undue anxiety, and exercise their rights without denying the rights of others. Sponsored by the Counseling Center, May 4, 9 a.m. - noon, May 6, 2-4:30 p.m.; call (ext. 2451) for more information and to sign up.
- 4-7 "Clemson Short School for Water and Wastewater Operators," Outdoor Laboratory. Sponsored by Continuing Engineering Education; call (ext. 3308) for more information.
- 5,6 "Plant Maintenance." Sponsored by Continuing Engineering Education; call (ext. 3308) for more information.
- 5,6 "Textile Chemistry Put to Work." Sponsored by Office of Professional Development; call (ext. 2200) for more information.
- 5,7 "Understanding Yourself and Others," a group designed to give one more knowledge of self and to appreciate the differences between one's self and others. A variety of values clarification and other non-threatening group exercises will be utilized to promote self-awareness. Sponsored by the Counseling Center, 9:30-11:30 a.m.; call (ext. 2451) for more information and to sign up.
- 6 "Rapid Sand Filtration." Sponsored by Continuing Engineering Education; call (ext. 3008) for more information.

## THIS WEEK AT CU (Cont.)

- 6,8 "Stress Management," a seminar introducing participants to strategies useful in coping more creatively and effectively with the stresses of modern life. Sponsored by Counseling Center; call (ext. 2451) for more information.
- 7 "Professional Development for Secretaries" and "Effective Writing Skills for Secretaries." Sponsored by Office of Professional Development; call (ext. 2200) for more information.
- 9 "Principles of I.V. Fluid Administration," conducted by Veronica Rempusheski, assistant professor of nursing. Sponsored by continuing education department, College of Nursing. Enrollment limited to licensed practical nurses, pre-registration required. Call (ext. 3079) for more information.

## GENERAL NOTES

- 7 Reception: College of Nursing Annual Reception for Graduating Students. Room 100, College of Nursing Building, 7-9 p.m. Open to public, no admission charge.
- 8 Commencement.
- 8 ROTC exercises, 9 a.m., Daniel Auditorium.
- "College Week for Senior Citizens." Registration still open for May 25-29 session. Administered by recreation and park administration department; co-sponsored by S.C. Commission on Aging and Cooperative Extension Service; call (ext. 3400 or 7504) for more information. (Announcement of session April 28 - May 7 in last week's calendar was incorrect.)

FOOTBALL TICKETS -- Friday, May 15, is the deadline to order season football tickets for 1981. All applications should be returned to the Ticket Office in Jervy Athletic Center. Graduate Students must also order before the May 15th deadline. Call the ticket office (ext. 2218) for more information.

|                                                                                                      |
|------------------------------------------------------------------------------------------------------|
| <p>The General Faculty Meeting will be Thursday, May 7, 1981, at 10 a.m. in Littlejohn Coliseum.</p> |
|------------------------------------------------------------------------------------------------------|

May 1981

FM 90, an educational radio station  
with studios in the Clemson House

## WEEKDAY SCHEDULE

| Time        | Monday                                | Tuesday                    | Wednesday              | Thursday                 | Friday                |
|-------------|---------------------------------------|----------------------------|------------------------|--------------------------|-----------------------|
| 6-8         |                                       | Morning Edition*           |                        |                          |                       |
| 8-8:30      |                                       | Radio Reader               |                        |                          |                       |
| 8:30-4      |                                       | Instructional Radio        |                        |                          |                       |
| 4-4:30      | My Word                               | In The Tradition           | High School News Quiz  | An Apple A Day           | Leaders & Trailers*   |
| 4:30-5      |                                       | Drive Time*                |                        |                          |                       |
| 5-6:30      |                                       | All Things Considered      |                        |                          |                       |
| 6:30-7      | Options in Education                  |                            | Horizons               | BBC Science              | Communique            |
| 7-7:30      | The Mind's Eye                        |                            |                        |                          |                       |
| 7:30-8      | Star Wars                             | Earplay Weekday Theatre    |                        |                          | Hitchhiker's Guide    |
| 8-9         | Boston Symphony**                     | International Concert Hall | NY Phil-harmonic       | Los Angeles Philharmonic | A Little Night Music* |
| 9-10        |                                       |                            |                        |                          |                       |
| 10-10:30    | Essence of Jazz**                     | Latin Beat*                | The Satellite Symphony |                          | Performance*          |
| 10:30-11    |                                       | Jazzspot*                  |                        |                          |                       |
| 11-12:00    | Alex Wilder and American Popular Song | Jazz Decades**             | BBC Promenade          | Vocal Scene              | The Record Shelf      |
| 12:00-12:30 | Jazz Revisited                        |                            |                        |                          |                       |

## WEEKEND SCHEDULE

| Time     | Saturday               | Sunday                           |
|----------|------------------------|----------------------------------|
| 6-8:30   | Mosaics                | Daybreak                         |
| 8:30-12  | Vivat Rex              |                                  |
| 12-12:30 | NPR Journal            |                                  |
| 12:30-1  | Micrologues            |                                  |
| 1-2      | Brazilian Hour         | NPR Recital Hall                 |
| 2-2:30   | I Hear America*        | Plots & Prologues*               |
| 2:30-3   |                        |                                  |
| 3-5      | Folk Festival USA      | Chicago Symphony                 |
| 5-6      | All Things Considered  | Music from Oberlin Remember When |
| 6-7      | Prairie Home Companion |                                  |
| 7-8      |                        |                                  |
| 8-9:30   | Jazz Alive             | St. Louis Symphony               |
| 9:30-10  |                        |                                  |
| 10-11    |                        | NPR Playhouse                    |
| 11-12:00 | Stardust Ballroom      | Windworks                        |
| 12-12:30 |                        | Music from Germany               |

\* Produced by the University station of WEPR

\* Funded by contributions to the University Fund for Radio



## COUNCIL RECOMMENDS TRIAL PROGRAM FOR HEALTH SERVICE PHARMACEUTICALS

The President's Council April 24 recommended that the student health service implement, for a one-year trial period, a policy that would require out-patients to pay for the pharmaceuticals they receive.

Under the proposal out-patients would pay for prescription and non-prescription drugs dispensed to them from Redfern Health Center's pharmacy, but students would not have to pay for medication they receive while hospitalized at the center.

The revenue generated would be used to help cover the costs of operating the health service, which by law must be self-supporting.

The proposal was recommended to the Council by the Commission on Student Affairs.

Commission chairman Walter Cox, vice president for student affairs, said the health service currently is plagued with a substantial deficit and must find ways to raise more operating funds.

He said the alternative to charging for pharmaceuticals would be to increase the health service fee required of all full-time students.

In other business, Provost David Maxwell told the Council he is working with an ad hoc committee to develop a statement outlining the University's basic philosophy regarding named professorships.

He said such a statement should prove helpful in eliminating confusion such as that which resulted from recent announcements of establishment of the Abney Chair of Free Enterprise in the economics department.

Student body president John Pettigrew and



CU'S TOPS IN CONTINUING EDUCATION -- University President Bill L. Atchley (left) and Professional Development Director Ralph Elliott admire a silver bowl award presented to the University for excellence in overall continuing education programs. The award was decided by a vote of the S.C. Association of Higher Continuing Education, which consists of some 125 members representing two- and four-year colleges, TEC schools and private and state universities. During the past year, Clemson has offered more than 700 continuing education courses ranging from business writing to engineering to textile chemistry updates. More than 20,000 people have attended courses and seminars.



HAVE A BYTE -- A one-day computer software demonstration for the College of Agricultural Sciences was held April 27 in the McAdams Hall Microcomputer Applications Lab. The session was designed to acquaint faculty and graduate students with commercially available equipment used in agribusiness. S.R. Chapman, associate dean and director of resident instruction for the college (right), and Jerry Arndt, an agricultural engineering senior, examined one of the units on display.



Student Senate president Reid Tribble spoke to the Council about their interests in establishing a two-day break in classes during the fall semester.

"The reason we want a fall break is not to shorten the semester, but to give faculty and students a rest," Pettigrew said.

Atchley instructed the commissions on undergraduate studies and graduate studies and research to study the matter in conjunction with reviewing the whole academic calendar.

Melvin Barnette, vice president for business and finance, told the Council he had some "good news for a change."

"The good news is our shortfall in next year's budget has not increased lately," he said.

He said the University continues to face a \$2.9 million shortfall in its educational and general budget for 1981-82 and a \$1.3 million shortfall in the public service budget.

He said Clemson still intends to ask for \$3 million in relief from the Senate Finance Committee, which is now considering the appropriations bill.

Maxwell announced that two honorary degrees will be awarded at commencement exercises May 8.

One will go to State Senator Rembert Dennis, and the other to Clemson alumnus and musician Guy Hutchins.

(Last week's "Newsletter" contains more information about the recipients.)

Atchley briefed the Council on the status of the University's planned capital campaign.

He said an official goal has not yet been set, but he estimated the target amount for the fund-raising effort will be more than \$50 million.

He said the money will be applied to a variety of University needs ranging from endowed chairs, scholarships and fellowships to library acquisitions, a performing arts center and equipment replacement and modernization.

He said one area that should benefit from the campaign is faculty salaries.

#### PALMETTO CABINET COMES CALLING

The wives of several current and former members of the General Assembly were on campus April 29 and 30 at the invitation of the Cooperative Extension Service.

Called the Palmetto Cabinet, the group-- which also includes Ann Riley, wife of Gov. Richard Riley, and the wives of other state officers -- attended a reception with President and Mrs. Bill Atchley,

toured the food science department and walked through the horticultural gardens.

The purpose of the visit, says Extension home economist Myrle Swicegood, was to familiarize the Palmetto Cabinet with Extension activities, particularly the Extension Home Economics Program.

#### MORE THAN POMP AND CIRCUMSTANCE GOES INTO A CLEMSON GRADUATION

When Judith Ray thinks of graduation, she thinks of diplomas -- "stacks of diplomas, mountains of diplomas."

And she's had many a graduation to think about in her 12 years with the University.

Ray is the recorder in the Office of Admissions and Registration, and one of her jobs is to help get diplomas ready for each commencement exercise.

In fact she and her assistants do much of the preliminary work that goes into Clemson graduations.

"The diplomas and cases must be ordered, and when they arrive they must be proofread letter by letter," Ray explains.

"Individual records must be checked and the graduation program must be changed and proofread several times as the number of candidates changes."

The final version of the program is printed less than 24 hours before commencement begins.

"We get notice of students who have failed required courses and notices of those receiving honors about three days before graduation," she continues.

"Plus there are those who fail to pay outstanding debts to the University.

"And the diplomas of all those people must be pulled from the stacks of diplomas. That requires much lifting and heavy work that continues right up to hours before the ceremony."

Of the 1,434 candidates for graduation



Judith Ray

this May, Ray expects approximately 200 not to graduate for one reason or another.

The deadline for ordering diplomas and cases is usually about three months before graduation, but some students wait until the last minute to check into what they're supposed to do, Ray says.

"Students come in a week or even a day before graduation not having submitted a diploma application," she says.

"Although the deadlines appear in the Student Handbook, registration packets and on the academic calendar, some students just don't seem to get the word. And it's really terrible when they come in here crying."

There are any number of other twists too. For example, Ray says, "Some students have never used their full names. Consequently, some use nicknames on their diploma applications -- which is not acceptable on formal documents such as diplomas."

But despite the pressures of the job, she says there are special rewards.

"I get to know many students personally. I care about my students; I want to be sure they graduate.

"Some whose GPRs are borderline manage to pull it out in the final semester. That makes me very proud of them."

CHANGING FASHIONS -- After four years of study and discussion and two student referendums this year, the University has adopted a new diploma style. Beginning with this Friday's graduation exercises, diplomas awarded by Clemson will look like the top sample shown here. The retiring diploma style is the bottom one.

In a student referendum held in January, the old style received only 11 of 770 votes, while the new style got 103 votes more than its nearest competitor. In a runoff between the two top vote-getters, the new style won 624 of 843 votes cast.

The University has not changed diploma styles since 1970. The trend back then, according to Ken Vickery, assistant vice president for student affairs, was for diplomas to look "clean and crisp." Old English letters were avoided. Now the pendulum has swung back, he says.

The new diplomas are also more colorful than the old ones. The University seal is done in official "Clemson Purple." Acting dean of industrial management and textile science Tom Efland directed the research effort to determine (by analyzing a piece of ribbon used on Clemson diplomas long ago) the exact shade of "Clemson Purple."

# Clemson University



On the recommendation of the Faculty and by virtue of the authority vested in them the Trustees of the University have conferred upon

the degree of  
**Master of Architecture**

In testimony whereof, the seal of the University and the signatures of its officers are hereunto affixed this  
8th day of May, 1981.

*Karl W. Alston*  
Chairman of the Board of Trustees

*Bill L. Hickley*  
President of the University

*W. David Maxwell*  
Provost

*Arnold C. Schwab*  
Dean

## CLEMSON UNIVERSITY

ON THE RECOMMENDATION OF THE FACULTY AND BY VIRTUE OF THE AUTHORITY VESTED IN THEM THE TRUSTEES OF THE UNIVERSITY HAVE CONFERRED ON

THE DEGREE OF  
**BACHELOR OF ARTS**  
IN POLITICAL SCIENCE

IN TESTIMONY WHEREOF THE SEAL OF THE UNIVERSITY AND THE SIGNATURES OF ITS OFFICERS ARE HEREUNTO AFFIXED THIS  
THE 7TH DAY OF MAY, NINETEEN HUNDRED SEVENTY-SIX.



*Karl W. Alston*  
PRESIDENT OF THE BOARD OF TRUSTEES

*C. C. Eason*  
PRESIDENT OF THE UNIVERSITY

*Walter H. Hest*  
DEAN OF THE UNIVERSITY

*Harmon Goss*  
DEAN

WITH HIGH HONOR



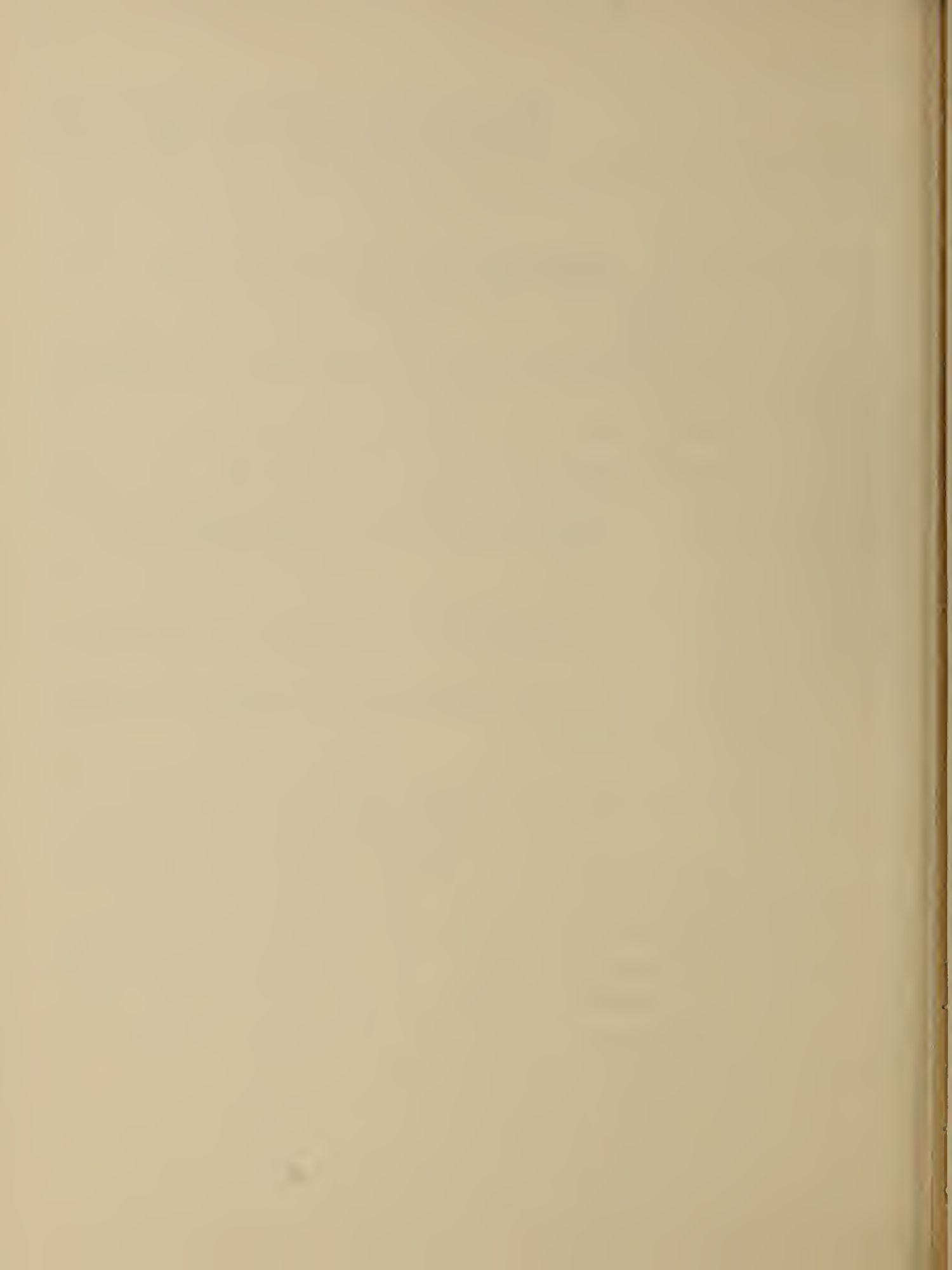
# THISWEEK AT CU

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May 11-17

- |       |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11    | "Computer Programming for Graphical Displays." Sponsored by Continuing Engineering Education; call ext. 3308 for more information.                                                                                                                                                                                                                                                             |
| 11-13 | "Fundamentals of Finance and Accounting for Non-Financial Managers." Sponsored by Office of Professional Development; call ext. 2200 for more information.                                                                                                                                                                                                                                     |
| 11-15 | "Preparing for the Nursing Licensure Exam," five days of review in the areas covered in the State Board Test Pool Examination for Registered Nurses. Sponsored by department of continuing education, College of Nursing; enrollment includes graduates of Baccalaureate Degree, Associate Degree or Diploma nursing programs, pre-registration required. Call ext. 3079 for more information. |
| 12-14 | "Computer-Aided Graphics and Design." Sponsored by Continuing Engineering Education; call ext. 3308 for more information.                                                                                                                                                                                                                                                                      |
| 14-15 | "Corporate Cash Management." Sponsored by Office of Professional Development; call ext. 2200 for more information.                                                                                                                                                                                                                                                                             |
| 16    | "Techniques of Venipuncture," conducted by Ann Rawlings, visiting instructor. Sponsored by continuing education department, College of Nursing. Enrollment limited to registered nurses and licensed practical nurses, pre-registration required; call ext. 3079 for more information.                                                                                                         |
| 17    | Residence halls open at 10 a.m.                                                                                                                                                                                                                                                                                                                                                                |





MAY 19 1981

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



CLEMSON UNIVERSITY LIBRARY  
SOUTH CAROLINA ROOM



Bill Hudson

## BILL HUDSON SELECTED 1981 MASTER TEACHER

It's been said that you have to love your job if you're going to do it well.

Bill Hudson loves teaching. He's been doing it here for 30 years.

And apparently he does it very well. He's been chosen by his students Alumni Master Teacher for 1981.

"Teaching is my only area of interest," says the associate professor of mechanical engineering. The pile of test papers on his desk indicates he has little time for anything else.

But grading papers is not the aspect of his job that he enjoys most. The best part of teaching, he says, "is seeing students develop over four years."

Hudson views teaching as a two-way street. He expects his students to perform well and make an effort to learn, but he

expects a lot of himself too.

"I try not to waste the students' time," he says. "I try to make the material I teach as interesting and relevant as possible."

Believing that tests aren't always the best measures of ability, Hudson looks for other ways to let his students prove themselves. "The better, more creative students show capability on outside projects and homework problems," he says.

Dealing with students, Hudson says, stimulates his own desire to learn more. "I learn something from all my classes. The students ask intelligent questions and give good responses." Those exchanges, he says, challenge him as well as his students.

Clemson has been a part of Hudson's life since his days as an undergraduate here. His student days were spent in classes taught by the likes of Slim Rhodes, D.W. Daniel and Sam Earle.

He went to class in Riggs Hall, the building where he now teaches courses in areas ranging from thermodynamics and power plants to freshman engineering and engineering laboratories.

He has been away from the University for only one year to earn a master's degree from the University of Michigan in 1965.

Hudson also participates in seminars and workshops sponsored by the Office of Continuing Engineering Education. One of the benefits of that, he says, is that it often brings him into contact with former students.

The programs give him a chance to renew friendships with alumni from his classes who're now in the professional ranks.



IN TOUCH WITH HISTORY -- Ninety students from the Cedar Springs School for the Deaf and Blind in Spartanburg toured the campus May 5, visiting Lamaster Dairy Center, the horticulture gardens, the Calhoun Mansion and the Hanover House. Here, with the aid of substitute tour guide Martha Barnes (right), a student examines a "dummy board," a life-size painting of an original resident of the Hanover House. Rumor has it the paintings keep the house safe from would-be intruders.

That makes the Alumni Master Teacher Award even more meaningful to him. The \$1,500 annual award is sponsored by the Alumni Association and administered by the Student Alumni Council.

Recipients are nominated and selected by students.

#### GRADUATE RECEIVES FULBRIGHT/HAYS SCHOLARSHIP

During a two-month summer stay in Germany, Michael Prince lived with the family of one Herr Doktor Hartung, a veterinarian and "lover of all living things...who is troubled much by what is happening in the world around him."

Next September Prince, who received a bachelor's degree in political science at last Friday's commencement, will begin a year's study in Germany on a Fulbright-Hays Scholarship.

The scholarship is the most prestigious international study grant available to American students.

The main object of Prince's study will be Die Grunen, a growing, grass-roots political party forming at local and district levels of the German political system.

The 21-year-old Greenville native plans to make his Fulbright experience in Germany a giant step toward a graduate degree in international relations and an eventual career in the U.S. State Department.

Prince's interest in political science grew out of a Western civilization course he took at Greenville's Wade Hampton High School. "It turned me on to the idea of the 'Renaissance Man,' of being a well-rounded person. I chose political science at Clemson because it's program was flexible enough to allow me to experience a lot of different areas."

He says coming to a predominately technological university was another way to broaden his horizons. "My roommate was a mechanical engineering student and our next-door neighbor was a student in electrical engineering. We used to have some interesting debates."

Prince is the first member of his immediate family to attend college. He says it's the responsibility of each new generation of college graduates "to be revolutionary, in a sense, by trying to insert fresh ideas into the political system rather than merely taking on the old forms without examining them for ourselves."





INDUSTRY, CLEMSON COOPERATE -- Chemical engineering graduate students, David Haslam, left, and Bob Shuette, right, will get on-the-job training, do graduate research and earn a salary at the same time in the new Industrial Residency Program between the University and Milliken and Company. Chemical engineering head Bill Barlage, left center, and Milliken college relations director Joe Black, show a plaque listing Haslam and Shuette as the first two students in the program -- with more to come. Milliken personnel director Ken Carter holds the check for the program's first phase.



A GIFT OF KNOWLEDGE -- The Western Carolinas Chapter of the Institute of Internal Auditors donated a gift of 21 books on internal auditing to Sirrine Library. Examining the collection are (left to right) James Acker, assistant professor of accounting and finance; Thomas Efland, acting dean of the College of Industrial Management and Textile Science; Bob Doyle, chapter president and a Citizen and Southern Bank auditor; Doris Guerreri, Sirrine librarian; and Emory Wells, internal audit manager at Spartan Mills.

#### FALK NAMED HEAD OF PLANNING STUDIES

(We regret the delay in reporting the following appointment.)

Ed Falk is now head of the department of planning studies. He moved up from acting head Jan. 2.

Falk has been with the University since 1968 when he was named acting head of the fledgling city and regional planning department.

He served in that position until 1973 and then taught planning courses at the University of Georgia while earning a doctorate in public administration.

He received the Ph.D. in 1979 and returned to Clemson.

Falk succeeds Aitken Clark as planning studies head. Clark left the post in 1979 to return to his native England.



# THIS WEEK AT CU

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May 18-24

- 18 Registration, first summer session.
- 18 Edgar's open from 7 p.m. to midnight. Sponsored by University Union.
- 18 Games Room opens at 9 a.m. (Pinball, foosball, video games). Sponsored by University Union.
- 18-24 "College Week for Senior Citizens," a diversified program of educational activities, recreation skills, tours and special events. Co-sponsored by South Carolina Commission on Aging and Cooperative Extension Service and administered by recreation and park administration department; call Ext. 3400 for more information.
- 19 Classes begin, first summer session.
- 23 Six Flags over Georgia discount tickets available at Union Program Office for \$9.25. Sponsored by University Union.

MAY 20 1981

CLEMSON UNIVERSITY LIBRARY  
SOUTH CAROLINA ECOM

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



## RETIRING FACULTY, LIBRARIANS AWARDED EMERITUS STATUS

Seventeen retiring faculty members and librarians were awarded emeritus status May 7 during the general faculty meeting in Littlejohn Coliseum.

Together the 17 have contributed 390 years of service to the University. All have been here more than 10 years, and five have worked at Clemson for more than three decades.

Recognized during the meeting were:

- Champ McMillian Jones, professor emeritus of agronomy and soils;
- Alfred Manwiller, professor emeritus of agronomy and soils;
- Calvin Bright Reeves, associate professor emeritus of dairy science;
- Taze Leonard Senn, head and professor emeritus of horticulture;
- John Frederick Wise, associate professor emeritus of animal science;
- Francis Alvin Bosdell, associate professor emeritus of industrial education;
- Betty Palmer Watkins, associate pro-

fessor emeritus of vocational education;  
-- Ruby Sellers Davis, assistant professor emeritus of history;

-- Joel Landrum Richardson, associate professor emeritus of industrial management;

-- Priscilla Heath Sutcliffe, librarian emeritus;

-- Leonard Ray Allen, associate professor emeritus of agronomy and soils;

-- Reynolds Foy Suman, associate professor emeritus of agronomy and soils.

The five remaining retirees were not present for the meeting. They are:

- Jimmy Bryant Copeland, associate director emeritus of the Cooperative Extension Service and professor emeritus of agricultural economics and rural sociology;
- Edith Bryant Card, assistant professor emeritus of music;
- Carlton Whitman Roberts, professor emeritus of polymer and textile chemistry;
- Mary Emerson Bragg, librarian emeritus;
- Sophia Elizabeth Sullivan, librarian emeritus.

*Continued on page 2*



**HAPPY MOTHER'S DAY** -- Spring commencement and Mother's Day fell on the same weekend this year, and that suited Judith White just fine. She received a bachelor's degree in plant sciences and a sign of appreciation from her family at the same time.

White's 9-year-old son Gregg and husband Charlie, who's an associate professor of recreation and park administration, let everyone know how proud they were that White was one of the 1,292 members of the Class of 1981 by displaying this poster during the May 8 exercises.



MONEY FOR MUSIC -- Left to right, Leonard Price, president of Budweiser of Greenville and Budweiser of Anderson, presents a check for \$5,000 to University President Bill Atchley, and Bands Director Bruce Cook to support the University bands program. In making the presentation, Price said he hoped to start a trend among area industries toward "giving the bands the recognition they deserve." Cook said the check, which is the first donation specifically for bands, would go toward the purchase of a van for band travel.

*Continued from page 1*

The faculty meeting included a report on 1980-81 Faculty Senate activities from outgoing Senate president Stassen Thompson.

Thompson summarized the year by saying the Senate and administration "worked together in good faith," and he urged the faculty to stay informed about the work of the Senate.

The faculty voted to award the 1981 Norris Medal to Oscar Fred Lovelace, Jr. of Columbia.

Lovelace, a zoology major who was student body president this year, received the award at commencement exercises May 8.

The Norris Medal is given annually to one graduating senior who has compiled an outstanding record of scholastic and extracurricular achievement while at the University.

In his address to the meeting, University President Bill Atchley said obtaining increased state funding for Clemson programs remains one of his top priorities.

He said the University has made major advances in the last year in the areas of improving communications, enhancing the cultural environment on the campus

and developing plans for a major capital campaign.

He set four new goals for the University:

1. To convince the General Assembly of the value of Clemson to the economic health of the state.
2. To build a closer relationship with industry.
3. To stay in touch with Clemson's land-grant heritage as a "people's University."
4. To continue to develop mutual trust and respect among students, faculty and administrators.

#### PLAN APPROVED TO OFFER COURSES IN GREENVILLE

The South Carolina Commission on Higher Education Thursday approved the University's proposal to offer on the campus of Greenville TEC upper division courses in computer engineering, computer sciences, engineering technology, electrical engineering and mechanical engineering.

This clears the way for the establishment of bachelor's degree-granting engineering and computer sciences programs by Clemson in the Greenville area.



The program, scheduled for immediate implementation with students starting this fall, will be entirely administered by Clemson.

For example, students in this program will be admitted to the University, pay Clemson tuition and receive instruction from Clemson faculty. Classes will be taught at Greenville Tec, but Clemson will provide a free shuttle bus to campus laboratories when necessary.

Clemson will also place a number of basic reference works in the Greenville Tec library for student use and will add several computer terminals tied into the University's computer.

Provost David Maxwell said, "We look forward to our association with Greenville Tec in this joint project.

"We consider the plan an innovative response to filling local needs in economically trying times for higher education. It will allow Clemson to offer top quality programs -- and Greenville area students to take advantage of them -- in a prime location without requiring substantial additional resources from the state."

Maxwell said students enrolling in the Greenville Tec - Clemson University program will be Clemson students in the full sense and will receive the education that has been traditionally associated with degrees from the University.

Pre-registration and consultation for students entering the program for fall semester will be held at the Greenville Tec campus May 21 and June 9 from 2 to 7 p.m. Registration will be August 19-20.

#### EMERGENCY HORN WILL BE TESTED SOON

The large yellow horn recently erected on Cherry Road near the dairy barns will soon make its singing debut.

But no one should be alarmed, says Coleman Jennings, emergency coordinator at Duke

Power's Oconee Nuclear Station. The horn, one of 50 in Oconee and Pickens counties designed to alert residents to nuclear and weather emergencies, will be tested some time in June, she said.

During the test the alarm will make a "wailing, fluctuating sound," similar to that made by the siren at the football stadium, says Jennings.

"This signal will be used during a weather emergency," says Jennings. Another sound, a single three-minute blast, will be heard in case of a nuclear accident at the Oconee Nuclear Station.

"The horns will be used only to alert you to turn on your radio or TV to find out first-hand what is going on, and what you should do," says Jennings.

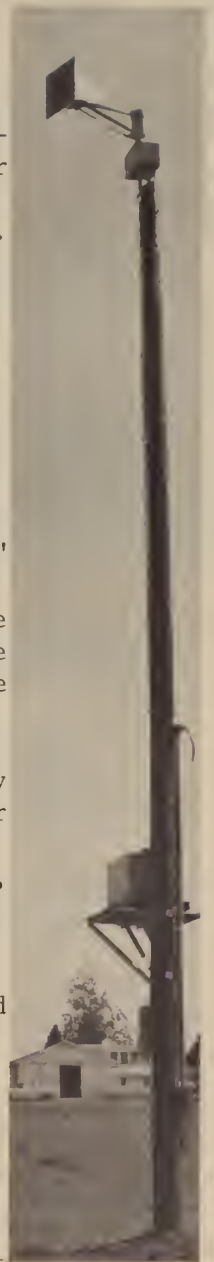
Maintained by Duke Power and operated by the counties, the horns were installed to comply with federal guidelines requiring a system to warn residents in a ten-mile radius of the power station within 15 minutes following a nuclear accident which may affect public health.

#### THERMOSTATS SET FOR SUMMER

The Physical Plant has adjusted thermostats in all campus buildings from the winter setting of 65°F to 78°F for the summer, says Walter Stone, director of engineering and planning of the physical plant.

The adjustments were made to comply with a State Budget and Control Board resolution mandating the 78° summer setting for

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*Continued from page 3*

all state buildings. In a further move to conserve energy, the physical plant adjusted the air-conditioning systems in each building for more efficient operation, says Stone.

"The physical plant will make every effort to see that the heat doesn't come in order to hold the 78° setting," says Stone, "but the mechanical systems in some buildings may cause this to happen."

If it does, says Stone, you should call the physical plant, as only they are authorized to make thermostat adjustments.

#### ICE CREAM WILL COST MORE

Inflation is forcing an increase in ice cream prices at the University's Agricultural Sales Center, says James Martin, head of the dairy science department.

These prices will be effective May 28, says Martin: one-half gallon ice cream, \$2.85; cones, 40 cents, one dip; 60 cents, double dip; and 80 cents, triple dip.

Also, small milkshakes will be 60 cents, and large ones, as well as sundaes, will be 90 cents.

# THIS WEEK AT CU

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May 25-31

- 25 "Summer Jam '81," a Memorial Day concert featuring live entertainment and 35¢ beer. Sponsored by University Union, East Bank Recreation Area, 1 p.m. ID and proof of age required.
- 25-29 "College Week for Senior Citizens," a diversified program of educational activities, recreation skills, tours and special events. Co-sponsored by South Carolina Commission on Aging and Cooperative Extension service and administered by recreation and park administration department; call ext. 3400 for more information.
- 26 Film: "The T.A.M.I. Show," starring the Rolling Stones and Chuck Berry. Sponsored by University Union, Edgar's, 9 p.m. 50¢ admission charge.
- 26-28 Workshop: "Fundamentals of Textiles." Sponsored by Office of Professional Development; call ext. 2200 for more information.
- 27 Workshop: "Effective Writing Skills for Secretaries." Sponsored by Office of Professional Development; call ext. 2200 for more information.



MAY 23 1981

May 26, 1981  
Vol 20 No 28

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



## FREEZES, DEADLINES ACCOMPANY END OF 1980-81 FISCAL YEAR

With June 30 marking the end of the 1980-81 fiscal year, the State Budget and Control Board has declared a freeze on state spending and hiring, and the University has set deadlines for paying interdepartmental bills with '80-'81 funds.

The ban on spending applies to state appropriated funds and is aimed primarily at supplies and equipment purchases.

Agencies also have been ordered not to hire any new permanent employees between now and June 30 unless:

- the employees are to be paid with non-state funds or
- the employment is entirely seasonable in nature or
- an agency can certify that it has reduced its personnel budget by 7 percent during FY '80-'81 or
- a moral or legal commitment to fill a position was made before May 12, the day the board decided to impose the freeze.

The details of the spending and hiring freezes are unclear at present, and University officials say more complete information will be provided to departments once the specifics of the board's action are defined.

(The "Newsletter" will carry additional reports on the situation as information becomes available.)

Transactions between departments of the University may continue, says purchasing director Jim Boleman, but certain deadlines must be met for bills to be paid with '80-'81 funds.

Requisitions for office and janitorial

supplies must reach the Purchasing and Supply Division by June 12 to be charged to current-year accounts.

Bills for maintenance supplies will be sent to departments no later than June 15 and must be returned to Purchasing and Supply by June 24.

(Maintenance, Office and Janitorial Stores will be closed June 22-26 for physical inventory.)

All work orders for Duplicating Services completed and processed by June 22 will be charged against '80-'81 accounts. After that date, work orders will be paid from next year's accounts.

Bills for postage through June 15 will be sent to departments on June 18 and must be returned to Duplicating Services by June 23.

All Communications Center requisitions completed and processed by June 25 will be charged to '80-'81 accounts.

Bills for motor vehicle supplies and maintenance will be sent to departments as of June 30 and must be returned to the Physical Plant by July 14.

Charges for work done by the Physical Plant on or before June 30 will be paid with this year's funds.

Bills for shipping charges dated June 25 will be charged against current budgets. These bills must be returned to the Office of Financial Management by July 7. Bills dated July 2 will fall under the new fiscal year.

Central switchboard telephone bills will be sent out the middle of July and will be charged to '81-'82 accounts.



# books for children



## CHARLIE BROWN, SNOOPY HELP LAUNCH NEW BOOK REVIEW SERVICE

With a little help from Charlie Brown and Snoopy, the departments of English and information and public services have begun a new book review service, "Books for Children."

The first two reviews -- one of "Charlie Brown, Snoopy and Me" by Charles M. Schulz with R. Smith Kiliper and one of "The Art of Maurice Sendak" by Selma C. Lanes -- were mailed May 5 to more than 300 newspapers across the country.

The idea for the review service grew out of the English department's 1980 Children's Literature Symposium, says department head Thomas Inge, who wrote the first reviews.

He says many of the symposium participants -- among them parents, teachers, librarians and authors -- complained that information on the best children's books is rarely available to parents and book-sellers.

Most children's books on the market today are associated with blockbuster films

and television shows, says Inge. But, he says, there are many other good books the public never hears about.

He says "Books for Children" is one way of letting people know what's available in children's literature.

Inge and English faculty members Bill Koon, Elisa Sparks and Malcolm Usrey will select and review books supplied by publishers at no cost.

University education editor Wally Bowen, who helped develop the service, will edit the reviews and supervise their distribution.

Bowen says it's too early to tell which newspapers will use "Books for Children," but he estimates that approximately 45 will print the reviews on a regular basis.

The department of information and public services also assists the history department in providing a similar review service, "History Book Review."

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## TEXTILE COMPANY SUPPORTS RESEARCH BY PHYSICIST

What does a textile manufacturing company have in common with a Clemson physicist doing basic research?

They're both interested in fibers -- what they're like, how they behave, and how strong they are when bonded together in a non-woven fabric.

And now, in an unprecedented arrangement for the University's department of physics and astronomy, Chicopee Manufacturing Co. is putting its money where its interest is. The company is supporting very basic research on the fundamental properties of fibers by physics profes-

sor Will Graben.

"Industry has always supported applied research in engineering and textiles and fields like that," says Graben. "But this is the first time I can remember a textile company underwriting basic research in theoretical physics at this University."

With federal research support on the wane under the Reagan administration, Graben says industry support is more important than ever to maintain and advance U.S. science and technology.

Graben's goal in the current project is to understand how synthetic fibers react to stresses like pulling and stretching.

From that understanding he'll develop a theoretical model to predict how fabrics made from those fibers will act.

"One way to develop new fabrics is through trial and error," he says, "but it would be nice to have some insight into what you try."

Graben's work with Chicopee will begin this summer, but will be interrupted by a year's sabbatical with the Institute for Educational Technology at England's University of Surrey.

With a National Science Foundation grant paying half his expenses, Graben will work on new ideas in computer assisted learning in physics.

#### ECONOMICS PROFESSOR RECEIVES FREEDOMS FOUNDATION AWARD

Economics professor Richard B. McKenzie is one of 13 educators to receive the fourth annual Leavey Award for Excellence in Private Enterprise Education.

The award, which carries a \$7,500 stipend, was presented May 8 during a ceremony at the Freedoms Foundation in Valley Forge, Pa. The Thomas and Dorothy Leavey Foundation funds the Freedoms Foundation grant to honor full-time high school and college educators who excel in teaching about the private enterprise system.

McKenzie received the award for his work in emphasizing "the indispensable connection between constitutional government as a political system and free enterprise as an economic system," according to the Freedoms Foundation announcement.

McKenzie will present his ideas in detail in a book, "If Men Were Angels," to be published in January of next year by the Hoover Institution at Stanford University.

The Freedoms Foundation is a private organization which sponsors "national programs of information and education



McKenzie

to preserve our heritage of free government and traditional values."

#### CHARLOTTE STUDENT NAMED POOLE SCHOLARSHIP RECIPIENT

Thomas J. Nadeau of Charlotte has been awarded an R.F. Poole Alumni Scholarship.

The entering freshman is a graduate of Dickson County High School and will pursue a degree in electrical engineering.

While at Dickson, Nadeau compiled a wide range of academic honors, including more than a dozen research awards at local and regional science fairs and departmental awards in science, math, Spanish and French.

He was a National Merit finalist in 1980, earned a varsity letter in cross country competition, and graduated fourth in his class of 400.

Poole Scholarships are supported by the Alumni Association through the Alumni Loyalty Fund. The \$2,000 awards are renewable each year as long as recipients maintain "B" averages and make normal progress toward graduation.

Given annually to incoming freshmen on the basis of outstanding academic potential, the scholarships are named for the University's seventh president, the late R. F. Poole, who served from 1940 until 1958.

# HOME GARDEN TOUR SCHEDULED FOR MAY 31 AT SIMPSON STATION

Nine gardens will be open for public viewing May 31 during a home garden tour at the Simpson Experiment Station near Pendleton.

The program, from 1:30 to 5 p.m., will feature guided tours of the gardens with agents, specialists and researchers on hand to talk about each plot.

Wagon rides will be provided from a central parking area, and light refreshments will be served.

The tour will include a herb plot, mini-garden, trial garden, mulched area, trellis vegetables, organic garden, containerized vegetables, perennials and a garden watered with trickle irrigation.

To get to the Simpson Experiment Station, take the Central/Pendleton exit (Road 18) off U.S. Hwy. 123 between Greenville and Clemson and follow the signs.

If you're coming from Anderson, turn off U.S. Hwy. 76/28 at Sandy Springs and follow the signs from there.

If it rains May 31, the tour will be June 7 at the same hours.

## ATCHLEY TO APPEAR ON WFBC-TV INTERVIEW PROGRAM MAY 31

University President Bill L. Atchley will be a guest this Sunday, May 31, on "Piedmont Profiles," a 30-minute interview program aired by Greenville's WFBC-TV.

The show, hosted by Channel 4's Kenn Sparks, will begin at 6:30 p.m.

Atchley will appear along with Tom Barton, president of Greenville TEC.

Likely topics for the interview include joint programs conducted by Clemson and Greenville TEC, the state's 1981-82 appropriations bill and the impact budget cuts will have on the two schools, state funding support for higher education in

general, and the state's plan for further desegregating its universities and colleges.

## PREFAB AUCTION SET FOR JUNE 10

Eighteen prefabs will be sold for cash to the highest bidder Wednesday, June 10, at an auction to begin at 10 a.m. in the Senate Chambers of the University Union Complex.

The prefabs to be sold are those on "F" Street (near Jervy Athletic Center) and on Ravenel Road (across Hwy. 93 from Hardee's).

The four-room frame structures have aluminum siding and contain approximately 600 square feet each. Each will be sold "as is," with a 30-gallon electric water heater, an oil space heater (three have gas heaters), bathroom fixtures, and kitchen cabinets.

All houses will be available for moving on the day of the sale and must be removed from their areas (with debris cleaned up) within 30 days of the auction.

If these conditions are not met, the property automatically will revert to University ownership.

If you'd like further information or



Eighteen prefabs will be sold June 10.



want permission to inspect the buildings, contact J.W. Young Jr., associate director of housing (ext. 2295).

#### THINK THIN WHEN CHOOSING COLORS FOR YOUR CLOTHES

If you work, sweat, diet and exercise to look a few pounds thinner, there may be an easier way: wear the right colors.

Extension clothing specialist Judith Kline says the colors of your clothes can make you look thinner -- or heavier -- than you really are.

Cool colors of green, blue and purple tend to make you look thinner, she says. On the other side of the coin, warm colors of yellow, red, orange and pink will make you appear larger; also, darker shades of any color make you look smaller than lighter shades do.

"This doesn't mean a person has to wear dark, cool colors all the time," Kline says. "That would be extremely boring.

"If you want a warm color, select it in a darker shade such as maroon or rust. In lighter colors, blue and green would be better choices than yellow and pink."

It also doesn't mean, she adds, that a person with a poundage problem should curtail efforts at weight control and try to compensate with the right colors.

"Maintain any recommended routine for your individual situation," she says. "Just keep in mind that colors can help with the illusion you would like to project."

#### ACCOUNTING AND FINANCE

B. Perry Woodside (Asst Prof) presented a paper, "An Analysis of the Provision of NOW Accounts in South Carolina" at the annual meeting of the South Carolina Academy of Science. The paper was co-authored with Benjamin M. Hawkins (Asst Prof, Econ).

#### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

At the 18th annual meetings of the Southern Regional Science Association in Arlington, Va., April 15, the following papers were given:

-- "A Methodology for Evaluating Agricultural and Manufacturing Firms by Water Use Criteria" by M.S. Henry (Assoc Prof) and Ernie Bowen (Grad Res Asst).

-- "Labor Productivity in South Carolina Manufacturing: A Shift-Share Analysis" by J.C. Hite (Prof) and David Hughes (Grad Res Asst).

K.W. Stokes (Asst Prof) co-authored two articles, "Evaluation of Effects of Cow Size and Milk Production on Herd Productivity in Central Texas," (Texas Agr Exp Sta PR-3794) and "Economics of Management/Marketing Alternatives for Cattlemen," (Texas Agr Exp Sta PR-3799) in Beef Cattle Research in Texas, 1981, (Texas Agr Experiment Station, Texas A&M University)..

Prof. Stokes also participated in the spring meeting of the Cooperative Regional Project S-116, "Supply, Pricing and Marketing Alternatives for Beef Cattle Systems in the South" in Mobile, Ala., April 21-22.

#### AGRONOMY AND SOILS

The following grants have been awarded by the S.C. Soybean Board:

- \$8,000 to the Cooperative Extension Service for the 1981 On-Farm Test-Demonstration program for soybeans in South Carolina.
- \$8,000 to B.J. Gossett (Prof) for research in cowpea control in soybeans.
- \$2,000 to H.L. Musen (Prof) for research on the selection of soybean varieties for late planting in South Carolina.
- \$6,000 for the establishment of a winter soybean breeding nursery in Puerto Rico and \$2,000 for research on selection of varieties for late planting

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in South Carolina to E.R. Shipe (Asst Prof).

J.H. Palmer (Prof) has received grants of \$1,000 from Chevron Chemical Co. and \$350 from Monsanto Agricultural Products Co. for 1981 research work on minimum tillage systems for soybeans in South Carolina.

## ANIMAL SCIENCE

Tomas Gimenez (Asst Prof) published an article, "Very Early Pregnancy Diagnosis in the Cow," in the April issue of The Advanced Animal Breeder, the official publication of the National Association of Animal Breeders.

John C. Spitzer (Assoc Prof) and Carl E. Thompson (Assoc Prof) received animal drugs valued at \$3,000 from the UpJohn Company of Kalamazoo, Mich., for a project for synchronization of estrus in cattle.

## BIOCHEMISTRY

The following occurred at the S.C. Academy of Science in March:

- Joy A. Martin (Grad Stu) and Carolyn S. Brown (Asst Prof) presented a paper, "The Effect of Serotonin on Brain Aromatic Amino Acid Decarboxylase of C57BL/6J Mice," March 26-28.
- G.L. Powell (Prof) and S.H. Gwak (Vstg Instr) presented a paper, "Specific Interactions of Spin Labeled Cardiolipin with Cytochrome Oxidase," March 24.
- Prof. Powell chaired an afternoon session on biochemistry March 24.
- Ellen Tisdale (Grad Stu), Martin and Prof. Brown presented a paper, "The Effect of Serotonin on Differential White Cell Counts and Red Blood Cell Counts and Red Blood Cell Morphology in C57BL/6J Mice," March 26-28.

Prof. Brown was awarded a BRSG grant for her proposal, "The Mechanism of Action of Serotonin on Bovine T Lymphocytes."

John McVey (Grad Asst) and Prof. Brown presented a paper, "The Effect of Tyramine on Growth and Differentiation of Murine B16C3 Melanoma Cells," at the American Society for Microbiology meeting in Dallas, Texas, March 1-6.

Prof. Powell gave a seminar, "Specific Binding of Spin Labeled Cardiolipin to Cytochrome Oxidase," to the biochemistry department at the Texas Health Center in San Antonio, Texas, March 23. He also gave an invited seminar, "The Boundary Layer of Cytochrome Oxidase," to the Lipid Subgroup from the departments of botany and chemistry at the University of Texas in Austin March 22.

## BIOLOGY

William Surver (Asst Prof) presented a seminar, "Biogenetic Studies of the Kelp Fly, Coelopa frigida," to the Department of Biology at UNC-Charlotte April 17.

## BOTANY

John E. Fairey III (Assoc Prof) presented a paper, "The Vascular Flora of the Proposed Basin of the Richard B. Russell Lake," and Caroline C. Douglas (Curator) presented two papers, "A Preliminary Report on the Bryophytes of the Proposed Basin for the Richard B. Russell Lake" and "Waldsteinia lobata (Baldw.) T. & G. (Rosaceae) Verified for South Carolina," at the 42nd annual meeting of the Association of Southeastern Biologists April 9-10 at the University of Tennessee in Knoxville.

## CHEMISTRY AND GEOLOGY

Joe F. Allen (Prof) reviewed National Science Foundation proposals in the Instructional Scientific Equipment Program, Washington, D.C., April 22-25.

Villard S. Griffin Jr. (Prof, Geol) presented a paper, "The Uranium and Thorium Content of Inner Piedmont Belt Pegmatites," at the Earth Sciences Section III-A of the 58th annual meeting of the Georgia

Academy of Science April 24-25 in Atlanta, Ga.

J.W. Huffman (Prof) presented a seminar, "An Introduction to Natural Products Chemistry," at Georgia Southern College in Statesboro, Ga., April 29.

H.G. Spencer (Prof) and G.S. Morrison and P.O. Sanderfer (Winthrop College) presented a paper, "Salting Effects of Simple Salts and Polyelectrolytes on p-Nitrophenol in Aqueous Solutions," at the 54th annual meeting of the S.C. Academy of Science in Columbia March 27.

G.C. Lickfield (Grad Stu), G.B. Savitsky (Prof), A.L. Beyerlein (Prof) and Prof. Spencer presented a paper, "Application of Selective Deuteration to  $^{13}\text{C}$ -NMR Studies of Polymers in Solution," at the 181st American Chemical Society national meeting in Atlanta, Ga., April 3. Also at that meeting, Prof. Spencer presented a paper, "Eminent South Carolina Chemists."

#### CIVIL ENGINEERING

R.E. Elling (Assoc Prof) and G. Witherspoon (Prof and Hd, Arch Stud) received a \$49,000 grant from the S.C. Dept. of Highways and Public Transportation to inventory metal truss bridges in South Carolina. The study is part of the state's bridge replacement program and will consume approximately 6 months.

Prof. Elling was awarded a \$47,500 grant from the National Science Foundation to study seismic loading imposed on buried cylindrical structures. Part of NSF's Earthquake Hazards Mitigation Program, the project extends for approximately 18 months.

Subhash C. Anand (Prof) has been invited to serve on two discussion panels (Underground Openings and Soil - Structure Interaction) at the NATO Advanced Study Institute, entitled "Numerical Methods in Geomechanics," to be held at the University of Minho, Braga, Portugal, Aug. 20 - Sept. 4.

#### COMPUTER CENTER

Jim Blalock (Systems Prog II) presented a paper, "Obtaining and Using Central Version Performance Data," at the IDMS User Association, Atlanta, Ga., Feb. 25.

Blalock chaired a meeting, "CV and DC Tuning and Performance," at the IDMS User Association April 7.

C.J. Duckenfield (Dir) was quoted in the lead editorial, "Should Small Systems Users Buy American?", of the April 1981 issue of Small Systems World.

Judy Walden (Sys Software Dsgn Mgr) published an article, "The Kingdom of Transformation," in the April 27 Computerworld.

The following occurred at the S.C. State DP Directors Conference at Hilton Head in April:

--Kevin Black (Sys Prog II) presented a paper, "Systems Network Architecture Outlook."

--Cindy Bullard (Data Coord III) presented a paper, "Tape Management Methodologies Overlook," April 13.

--Dave Bullard (Res Assoc) presented a paper, "Outline for TP Network Design" April 13.

--Dir. Duckenfield chaired a meeting, "Teleprocessing Workshop," April 15.

--Jim Hopkins (DP Adm. I) chaired a meeting, "Operations Management and Control," April 13.

--Hopkins presented a paper, "Operations Organization," April 13.

--Betty Hubbard (EDP Prod Serv Sup) and Bob Wiggins (Sys Coord, DAPS) presented a paper, "Production Control Methodologies," April 13.

--Richard Nelson (Res Assoc) presented a paper, "Word Processing," April 15.

#### ECONOMICS

Ralph D. Elliott (Assoc Prof, Econ and Dir, PD) and Ben Hawkins (Asst Prof, Econ) have an article, "Do State Right to Work Laws Affect Union Decertification Activity," accepted for publication in the Atlantic

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### Economic Journal.

Myles Wallace (Asst Prof) had "A Backward Bending Supply of Labor Schedule and the Short Run Phillips Curve " accepted for publication in the Southern Economic Journal.

Prof. Wallace co-authored with Wilson Mixon (UNC-Greensboro) "U.S. Prices, Canadian Prices, and the Exchange Rate Regime" for a forthcoming issue of Review of Business and Economic Research.

### ENGLISH

Sterling Eisiminger (Assoc Prof) published "Love's Due," a poem, in The Oconee Review (Winter 1980).

Prof. Eisiminger also published "The Assault," a poem, in The DeKalb Literary Arts Journal (Spring 1980).

John Idol (Assoc Prof) published "George Herbert and John Ruskin" in the George Herbert Journal, 4, no. 1 (1980), 11-28, and reviewed Philip Sicker's Love and the Quest for Identity in the Fiction of Henry James for Studies in Short Fiction, 18, no. 1 (1981), 102-3. He also presided at one session of the Thomas Wolfe Society's annual meeting in Chapel Hill April 11-12 and was elected as the society's president for next year. He has also been chosen to serve a two-year term as president of the Piedmont Area Phi Beta Kappa Association.

M. Thomas Inge (Prof & Hd) did the introductory lecture for a showing of the film "Cat on a Hot Tin Roof" by Tennessee Williams in a series sponsored by the Institute of Southern Studies at the University of South Carolina in Columbia April 15, and published a review of David Minter's William Faulkner: His Life and Work in The Faulkner Newsletter and Yoknapathawpha Review, 1 (April - June 1981), 2.

Carol Johnston (Vstg Asst Prof) and Richard Johnston published "Robert

Sherwood" in Dictionary of Literary Biography, Volume Seven: Twentieth Century American Dramatists, ed. John Mac Nicholas (Detroit: Gale Research, 1981), pp. 239-252.

William Koon (Assoc Prof) published an article, "Jonathan Swift, Lemuel Gulliver, and the English Tongue," in CLA Journal, 12 (September 1980), pp. 68-75.

Ronald F. Lunsford (Asst Prof) read "A Review of Recent Heuristics" at the Conference on College Composition and Communication held in Dallas, Texas, in March and conducted a workshop for teachers on "Using Sentence Combining to Teach Organization" at Greenville Technical College April 4.

Fred Shilstone (Assoc Prof) reviewed Byron's Letters & Journals, ed. Leslie A. Marchand, IX, in Southern Humanities Review, 15 (1981), 79-81.

Malcolm Usrey (Assoc Prof) was elected to the Scholarship Committee of the international Children's Literature Association for 1981-1984.

The following have been awarded NEH Summer Seminar grants for 1981 for the following universities:

--William H. Aarnes (Vstg Asst Prof), "Autobiography: A Transdisciplinary Approach," James Olney, University of North Carolina at Chapel Hill.

--Bernard K. Duffy (Asst Prof, Speech), "Engineers and Conflict: An Historical Analysis," Eugene S. Ferguson, University of Delaware (and alternate for "Rhetoric and Public Discourse," Edward P. J. Corbett, Ohio State University).

--Paul A. Orlov (Vstg Asst Prof), "American Literary Naturalism," Donald Pizer, Tulane University.

--Gerard D. Plecki (Vstg Asst Prof), "Cinema and the Affective Response," Charles M. Affron, New York University.

### ENTOMOLOGY, FISHERIES AND WILDLIFE

T.M. Brown (Asst Prof) presented an invited lecture, "Prevention of Pest



Resistance to the Synthetic Pyrethroid Insecticides," to the Insecticide Division of the 67th meeting of the Chemical Specialties Manufacturers Association in Chicago, Ill., May 11.

A.G. Eversole (Assoc Prof), W.K. Michener (Former Grad Asst) and P.J. Eldridge (Nat. Marine Fisheries Service) published a paper, "Reproductive Cycle of Mercenaria mercenaria in a South Carolina Estuary," in the Proc. Nat. Shellfish. Assoc. 70: 22-30.

Ray Noblet (Prof) was selected by the board of directors of the Georgia Entomological Society to serve a five-year term on the Editorial Board of the Journal of the Georgia Entomological Society.

Merle Shepard (Prof) with M. Keeratikasikorn, P.R.B. Blood, and D. Morgan (Univ of Queensland, Australia) published a paper, "Soybean Resistance to Adults of Lucerne Crown Borer, Zygrita dira," in the Journal of the Georgia Entomological Society, 16 (1981), 34-40.

Prof. Shepard and P. Parkman (Ag Sci Assoc II) published a paper, "Foliage Consumption by Yellowstriped Armyworm Larvae After Parasitization by Euplectrus plathypenae," in the Florida Entomologist, 64 (1981), 192-194.

John R. Sweeney (Assoc Prof) was named associate editor for wildlife for the Proceedings of the 35th annual conference of the Southeastern Association of Fish and Wildlife Agencies to be held in Tulsa, Okla., Oct. 18-21. The Southeastern Proceedings are recognized as one of the more authoritative, professional fisheries and wildlife publications in this region.

At the annual meeting of the North American Benthological Society April 27-30 in Provo, Utah, the following presentations were made:

--R.W. Holzenthal (Grad Asst) and J.C. Morse (Assoc Prof), "Historical Biogeography and Ecology of Two New Species of Nearctic Setodes - Trichoptera: Leptoceridae."

--R.W. Kelley (Grad Asst) and Prof. Morse, "A Reassessment of Species Groups of Southeastern Oxyethira - Trichoptera: Hydroptilidae - Based on Analysis of the Females."

--K.L. Manuel (Auburn Univ) and Prof. Morse, "The Caddisfly Genus Triaenodes - Trichoptera: Leptoceridae - in North America: Phylogeny, Biogeography, Ecology."

--J.S. Weaver III, "Larval and Pupal Descriptions of Dolophilodes (Fumonta) major (Banks) - Trichoptera: Philopotamidae."

## FORESTRY

Don Ham (Assoc Prof) was cited for outstanding service as past president of the Southern Chapter of the International Society of Arboriculture of which he served as president in 1980.

## HISTORY

Joseph L. Arbena (Prof) presided at a session on literary views of ancient and modern Mexico at the 28th annual meeting of the Southeastern Council of Latin American Studies in Tuscaloosa, Ala.. April 16-18.

Roger P. Leemhuis (Asst Prof) was a commentator at a session, "The Other South: Anti-Racism and the Southerner as Abolitionist," at The Citadel Conference on the South in Charleston, April 24.

Charles H. Lippy (Assoc Prof) reviewed the Dictionary of American Communal and Utopian History by Robert S. Fogarty in Religious Studies Review, VII, 2 (April 1981), 181.

Prof. Lippy also reviewed John F. Wilson, Public Religion in American Culture, in Winterthur Portfolio, 16, 1 (Spring 1981), 128-30.

Alan Schaffer (Prof and Hd) has been invited to attend "Airlie III," the Third Invitational Seminar on the Art of Radio, sponsored by The Radio Foundation and

*Continued on page 10.*



*Continued from page 9.*

the Corporation for Public Broadcasting. Held annually at the end of May in New York, "Airlie" conferences bring together public radio producers, reporters, editors, programming executives, and program financial supporters "to exchange ideas, listen to and critique tape, and participate in nuts-and-bolts workshops on production techniques, satellite access, program funding and distribution." Attendance is by invitation only.

Prof. Schaffer also has been awarded an NEH Fellowship at the Institute on Southern Black Culture to be held at Atlanta University, June 22 - July 29.

#### HOME ECONOMICS

Joyce H. Jenkins (Assoc Prof) gave a presentation on "Alternative Delivery Systems for Providing Consumer Information on Household Equipment" at the first National Meeting of Extension Household Equipment Specialists in Columbus, Ohio, April 27 - May 2.

#### INDUSTRIAL EDUCATION

J. Page Crouch (Prof) presented a program on the PICA Graphic Communications Education Program Feb. 21 to a group of graphic arts instructors in Lansing, Mich. In addition to explaining the concepts behind this individualized learning system (developed at Clemson in cooperation with the Printing Industries of the Carolinas and the S.C. Department of Education), Prof. Crouch discussed in detail two simple methods of doing 4-color process which have proven very successful in the school program.

Prof. Crouch conducted a PICA In-Service Workshop at the Chicago Graphic Arts Spring Meeting Feb. 20. The workshop, attended by Chicago area graphic arts instructors/coordinators and school principals, detailed the PICA individualized learning system developed here.

#### INDUSTRIAL MANAGEMENT

Michael J. Stahl (Assoc Prof) and Adrian M. Harell (Univ of South Carolina) published an article, "A Behavioral Decision Theory Approach for Measuring McClelland's Trichotomy of Needs," in the Journal of Applied Psychology, 66, No. 2 (April 1981), 242-247.

#### INTERDISCIPLINARY STUDIES

F.W. Cooke (Prof and Hd) received a \$3,500 check from the 3M Corporation April 1 in support of the percutaneous research conducted by the department.

#### LANGUAGES

Edwin P. Arnold (Asst Prof, German), president of the S.C. Chapter of the American Association of Teachers of German, presided over the April 4 meeting at Columbia College and made two presentations: "Student Contacts with Natives of the German-speaking Nations" and "Oberammergau 1980," a slide presentation in German. He also served as a judge for German word games at the S.C. Foreign Language Day held at the State Fair Grounds in Columbia April 3.

#### LIBERAL ARTS

Robert A. Waller (Dean Designate) will participate in a management development seminar for assistant and associate academic deans in St. Louis, Mo., Nov. 18-20.

#### MATHEMATICAL SCIENCES

Renu Laskar (Prof) and Douglas Shier (Assoc Prof) have published a paper, "On Chordal Graphs," in Congressus Numerantium, 29 (1980) 579-588.

Prof. Shier has collaborated with J. Gilsinn and C. Witzgall (National Bureau of Standards) in writing a chapter, "Shortest Paths in Networks," for the book Case Studies in Mathematical Modeling,

(London: Pitman Publishing Co., 1980), pp. 171-255.

## MECHANICAL ENGINEERING

J.G. Goree (Prof) presented an invited seminar, "Observations On Symmetry of the Stress Tensor in Elasticity," to the faculty and graduate students of the Engineering Science and Mechanics Department at VPI in Blacksburg, Va., May 4. He spent May 5 as a guest of the department and discussed the research program in composite materials and spent May 6-8 at NASA-Langley in Hampton, Va., where the above seminar was also given and research being done at Clemson (NASA Grant NSG-1297) under his direction was discussed.

Richard S. Figliola (Asst Prof) presented an invited lecture, "Fluid Dynamic Criteria for the In-Vitro Evaluation of Prosthetic Heart Valves," at the AAMI 16th annual meeting in a special symposium sponsored by the FDA and held in Washington, D.C., May 10.

T. Yang (Prof) has been awarded \$64,978 by the David Taylor Naval R&D Center to conduct a study, "Experimental Investigation of High Performance, Short, Thrust Augmenting Ejectors." Ejector research has received renewed interest by several government agencies in an effort to achieve better performance in VSTOL aircraft.

## MUSIC

John H. Butler (Hd, Actng Dean) was the conductor/clinician for the Georgia All-State High School Band at Savannah, Ga., April 29 - May 1.

## PHYSICS AND ASTRONOMY

P.B. Burt (Prof) gave lectures, "Quantum Field Theory with Persistent Interactions" and "Quantum Mechanics and Nonlinear Waves," as part of a theoretical physics seminar at the University of Georgia, Athens, Feb. 16.

John R. Ray (Prof) published two articles: "Solitary Waves in a Generalized Time-Dependent Sine-Gordon Equation" in Letter II Nuovo Cimento 30 (1981), 372 and "Invariants for Nonlinear Equations of Motion" in Progress of Theoretical Physics 65 (1981), 877. He also gave a talk, "Relativity, Time and the Twin Effect," to science students and faculty at North Georgia College April 23.

## POLITICAL SCIENCE

Harold E. Albert (Prof) has been awarded a grant for \$20,498 by the U.S. Department of Energy for a summer institute for secondary teachers, "Putting 'Energy' in the Secondary School Curriculum."

Martin Slann (Assoc Prof) has published "Going After Giscard--Presidential Politics in France: The Two-Stage Campaign for an Unequivocal Mandate" in TODAY: The Journal of Political News and Analysis, 3, No. 29 (April 24, 1981), 8, 16.

## PROFESSIONAL DEVELOPMENT

Kathryn S. Collins (Admin Asst) presented a paper, "Designing and Developing Effective Publications," at the 66th annual conference of the National University Continuing Education Association in Colorado Springs, Colo., April 11-15.

## RECREATION AND PARK ADMINISTRATION

G. Wesley Burnett (Asst Prof) presented a paper, "Quantitative Evaluation of Landscape Attributes: A Reconnaissance Technique," with David Conklin (Montana Department of Fish, Wildlife and Parks) at the Association of American Geographers' meeting April 20 in Los Angeles. At the same meeting, Burnett also chaired a paper session, "Environmental Management: Raw Materials."

## SOCIOLOGY

Max E. White (Asst Prof) chaired a  
*Continued on page 12.*

*Continued from page 11.*

session, "Subsistence and Environment in the Southeastern U.S.," and presented a paper, "Early Man and Environment in the Southeastern U.S.," at the annual meetings of the Southeastern Archaeological Conference Nov. 14 in New Orleans. He presented a paper, "Black Basketmakers in Northwestern South Carolina," at the meeting of the S.C. Academy of Sciences March 27 in Columbia and presented a paper, "Archaeological Reconnaissance in Pickens and Oconee Counties, South Carolina," at the Seventh Annual Conference on South Carolina Archaeology April 11 in Columbia.

Helen Marie Clark (Asst Prof) was a discussant for a symposium, "Child Care or Child Maltreatment," and presented a paper, "Interagency Intervention in Child Abuse," at the Southeastern Psychological Association March 27 in Atlanta. She also presented a paper, "Sociological Practice vs. the State of Academia," at the S.C. Sociological Association April 10 in Columbia.

At the annual meetings of the Southern Sociological Society April 8-11 in Louisville, Ky., the following happened:

--Christine A. Hope (Asst Prof) was the discussant for a session, "Women and Work: Occupational Foci."

--Christopher M. Sieverdes (Assoc Prof)

was a panel member on a round-table session, "Criminology Theory."

--Ronald G. Stover (Asst Prof) organized and chaired a session, "Women and Work: Occupational Foci."

--William M. Wentworth (Asst Prof) presented two papers, "Current Criminological Theory" and "The Theory of Autonomy in the Works of Emile Durkheim."

--Mervin F. White (Assoc Prof) served as convener and commentator for a luncheon session, "Discretionary Decision Making in Prison."

#### TEXTILE DEPARTMENT

Hassan M. Behery (Assoc Prof) attended the Natural Fiber Testing Workshop at Fort Mill March 11-13 and served as discussion leader in the session on fiber strengths.

#### ZOOLOGY

Ruth L. Hays (Assoc Prof) published a review of the book Basic Anatomy of the Human Body (John Wiley and Sons) by McClintic in the Journal of College Teaching 10 (1980) and served on the National Science Foundation advisory panel for ISEP grants in Silver Springs, Md., April 22-25. She also participated in the area meeting of the National Science Teachers Association Nov. 20-22 in Orlando, Fla., and in the AREMS meeting and workshop held here March 27.

# THIS WEEK AT CU

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June 1-7

- |               |           |                                                                                                                                                                                                                                                                      |
|---------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WORKSHOPS     | 3-4       | "Letter and Report Writing." Sponsored by Office of Professional Development; call ext. 2200 for more information.                                                                                                                                                   |
|               | 4-5       | "Effective Time Management." Sponsored by Office of Professional Development; call ext. 2200 for more information.                                                                                                                                                   |
| GENERAL NOTES | 2         | Shagging short course begins. Sponsored by University Union; sign up at the information desk by June 1.                                                                                                                                                              |
|               | 2         | Film: "Everything's Ducky," starring Mickey Rooney and Buddy Hackett. Sponsored by University Union; Edgar's 9 p.m. 50¢ admission charge.                                                                                                                            |
|               | 7         | Trip to Sliding Rock. Sponsored by University Union; sign up at the information desk by June 5, \$4.00.                                                                                                                                                              |
|               | 7-July 18 | "Jaycee Camp Hope," a residential camp administered and sponsored by the recreation and park administration department in cooperation with the South Carolina Association for Retarded Citizens and the South Carolina Jaycees. Call ext. 3400 for more information. |



June 1981

**WEPR**FM 90, an educational radio station  
with studios in the Clemson House

## WEEKDAY SCHEDULE

| Time        | Monday                                | Tuesday                    | Wednesday              | Thursday                 | Friday                |
|-------------|---------------------------------------|----------------------------|------------------------|--------------------------|-----------------------|
| 6-8         |                                       |                            | Morning Edition*       |                          |                       |
| 8-8:30      |                                       |                            | Radio Reader           |                          |                       |
| 8:30-12     |                                       |                            | Morning Pro Musica     |                          |                       |
| 12-12:30    |                                       |                            | Spider's Web           |                          |                       |
| 12:30-3     |                                       |                            | Matinee                |                          |                       |
| 3-4         |                                       |                            | Options                |                          |                       |
| 4-4:30      | My Word                               | In The Tradition           | Alive and Kicking      | An Apple A Day           | National Town Meeting |
| 4:30-5      |                                       |                            | Drive Time*            |                          |                       |
| 5-6:30      |                                       |                            | All Things Considered  |                          |                       |
| 6:30-7      | Options in Education                  |                            | Horizons               | BBC Science              | Communique            |
| 7-7:30      |                                       |                            | The Mind's Eye**       |                          |                       |
| 7:30-8      | Mindwebs                              | Earplay Weekday Theatre    |                        |                          | BBC Comedy            |
| 8-9         | Boston Symphony                       | International Concert Hall | NY Phil-harmonic       | Los Angeles Philharmonic | A Little Night Music* |
| 9-10        |                                       |                            |                        |                          |                       |
| 10-10:30    | Essence of Jazz                       | Latin Beat*                | The Satellite Symphony | Majors and Minors*       | Performance*          |
| 10:30-11    |                                       | Jazzspot*                  |                        |                          |                       |
| 11-12:00    | Alex Wilder and American Popular Song | Jazz Decades**             | BBC Promenade          | Vocal Scene              | The Record Shelf      |
| 12:00-12:30 | Jazz Revisited                        |                            |                        |                          |                       |

## WEEKEND SCHEDULE

| Time     | Saturday               | Sunday             |
|----------|------------------------|--------------------|
| 6-11     | Mossics                |                    |
| 11-12    | Vivat Rex              | Daybreak           |
| 12-12:30 | NPR Journal            |                    |
| 12:30-1  | Micrologus             |                    |
| 1-2      | Brazilian Hour         | NPR Recital Hall   |
| 2-2:30   | I Hear America*        |                    |
| 2:30-3   |                        | Plots & Prologues* |
| 3-5      | Folk Festival USA      | Chicago Symphony   |
| 5-6      | All Things Considered  | Music from Oberlin |
| 6-7      | Prairie Home Companion | Remember When      |
| 7-8      |                        |                    |
| 8-9:30   | Jazz Alive             | St. Louis Symphony |
| 9:30-10  |                        |                    |
| 10-11    |                        | NPR Playhouse      |
| 11-12:00 | Stardust Ballroom      | Windworks          |
| 12-12:30 |                        | Music from Germany |

\* Produced by the University station of WEPR

\* Funded by contributions to the University Fund for Radio





June 2, 1981  
Vol 20 No 29

SOUTH CAROLINA ROOM

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



## UNIVERSITY TO HOST CONFERENCE OF INTERNATIONAL TEXTILE GROUPS

Two international textile organizations have accepted the University's invitation to hold the first World Conference on Warp Sizing here next spring.

The conference is expected to bring to Clemson more than 400 textile scientists, administrators and engineers from around the globe.

The European Seminar Group and the International Council for Textile Technologists have been holding separate annual symposia in various countries for several years, says Professional Development director Ralph Elliott.

By accepting the invitation issued by the textile department and Professional Development to come to Clemson May 23-27, 1982, the two organizations are combining forces to produce the first international textile gathering of its kind to be held in the United States.

The conference not only marks the first joint venture between ESG and ICTT, but also will be the first time the Atlanta-based ICTT will hold one of its annual international seminars in this country.

World Conference participants will attend lectures and discussions, tour the University's textile research facilities and visit textile mills in the state.

Leading a delegation of scientists and technicians from Europe will be Richard Schutz of the Center for Textile Research in Mulhouse, France, along with Joachim Trauter of the Textile Research Institute at Reutlingen, West Germany.

Shutz is an expert on warp sizing, the

protective coating applied to yarns as they enter the weaving process. Trauter is considered the world's foremost authority on size formula ultrafiltration and recycling.

Plans for the conference are well under way, says Elliott, with a call for papers having already been issued.

The Office of Professional Development (ext. 2200) has further information on the conference.

## ALUMNI RETURN TO CAMPUS FOR ANNUAL REUNION WEEKEND

More than 900 alumni and guests are expected to be on campus June 12-14 for this year's annual Reunion Weekend.

The visitors will begin arriving Friday, June 12, when they'll register in Manning Hall and be assigned rooms in either East Campus dorms or the Clemson House.

Class parties will be held Friday night.

Classes will meet in Daniel Hall from 9:30 a.m. until 11 a.m. Saturday, June 13. Class photos will be taken then too.

The Alumni General Assembly will convene at 2 p.m. Saturday in Daniel Auditorium, while a fashion show will get under way in the Clemson House at 2:30 p.m.

The main event of the weekend, the Alumni Banquet, will begin at 7 p.m. Saturday in Harcombe Commons.

More than 1,000 persons, including local alumni and friends, are expected for the buffet dinner during which five Alumni Distinguished Service Awards will be

*Continued on page 2.*



*Continued from page 1.*

presented.

Reunion Weekend '81 will include the following classes:

|      |      |      |      |      |      |
|------|------|------|------|------|------|
| 1904 | 1905 | 1906 | 1915 | 1916 | 1919 |
| 1920 | 1921 | 1922 | 1923 | 1924 | 1925 |
| 1927 | 1931 | 1932 | 1936 | 1939 | 1941 |
| 1943 | 1944 | 1956 | 1961 | 1962 | 1963 |
| 1971 | 1976 |      |      |      |      |

Reservations and more information are available through the Alumni Center (ext. 2345).

#### FIRE SAFETY INSPECTOR NAMED BEST IN SOUTH CAROLINA IN '81

Albert Timms, the University's fire safety inspector, has been recognized by his peers as the best in his field in South Carolina for 1981.

Timms has received the 1981 Fire Inspector of the Year Award from the S.C. Fire Inspectors Association.

He was selected for the award from among the more than 150 members of the association.

Timms has been helping promote fire safety and prevention here for the past 11 years -- first as a fireman and then, for the last five years, as inspector.

His job involves finding potential fire hazards and recommending ways to eliminate them. He also supervises fire drills, conducts fire safety programs for resident students, and maintains sprinklers and other fire fighting equipment.

According to fire chief Charles Owens, "Inspector Timms has prevented quite a few fires in his years here by seeing that things are taken care of before they become problems.

"We're proud to see him get the recognition he deserves."



Albert Timms

Timms says being fire safety inspector is a lot like being a salesman. "I try to sell people on becoming fire-safety conscious," he says, "which is, really, selling personal safety."

And he's quick to point out that "selling" fire safety must be a University-wide effort to be successful.

He notes that some faculty members are now teaching fire safety courses and cites the work of safety coordinator Walter Berry, police chief Jack Ferguson and fire chief Owens as instrumental in the University's fire safety and prevention progress.

#### HOLT RECEIVES BROADCAST AWARD FOR "WOMEN THEMSELVES" SEGMENT

Charlotte Holt, educational radio producer/director with the University station of WEPR (FM 90), has received a Broadcast Award for public affairs-documentary programming from the S.C. Commission on Women.

Holt won the award for her production of "Mary Chesnut," the first segment of WEPR's 26-part, six-month series "Women Themselves" aired last year.

The series examined the contributions of women in U.S. history according to accounts left by "women themselves" in diaries, autobiographies and journals.

"Mary Chesnut" aired over the S.C.



Charlotte Holt

Educational Radio Network in April 1980.

The show was based on an extensive diary kept during the Civil War by Chesnut, a Camden native and Confederate army officer's wife.

The diary later was published under the title "A Diary from Dixie."

Beverly Craven, chairman of the Broadcast Awards competition, said the awards are designed "to encourage greater recognition of women through a realistic portrayal by the media of their many faceted lives and changing roles."

The Commission on Women provides services including free legal advice for women and a quarterly newsletter available on request by writing the commission at 2221 Devine Street, Columbia, S.C. 29205.

"Women Themselves" will be aired again in South Carolina and throughout the South this fall by the Southern Educational Communication Association, a cooperative network of public radio stations in the region.

Production of the series was funded by the S.C. Committee for the Humanities and the University.

## ANNIE TRIBBLE CHOSEN TO COACH AT NATIONAL SPORTS FESTIVAL

It's been a good year for women's basketball coach Annie Tribble -- and it's not over yet.

She's been selected by the Amateur Basketball Association of the USA to coach the South team at the U.S. Olympic Committee's National Sports Festival III, which begins July 23 in Syracuse, N.Y.

The festival is considered a "first step on the road to the '84 Olympics" for players -- girls 19 and under, says Tribble.

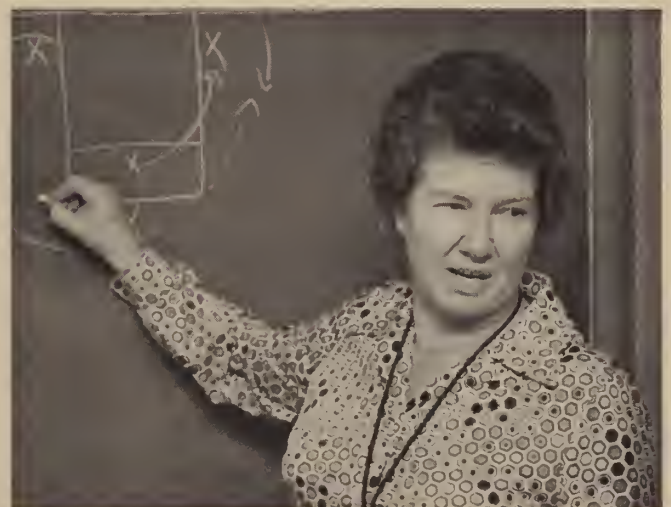
Other coaches for the festival include Marianne Stanley of Old Dominion, Marian Washington of Kansas and Joan Bonvincini of Cal-State Long Beach.

In her five years at Clemson, Tribble has led her teams to an overall record of 110-50.

The 1980-81 Lady Tigers, 23-8 on the season, brought home the regular season Atlantic Coast Conference title and hosted the conference tournament.

The regular season conference championship was the first ever for a Clemson basketball team.

*Continued on page 4.*



Annie Tribble



*Continued from page 3.*

Also for the first time ever, the Lady Tigers were invited to play in the AIAW National Tournament as one of the "final 24" teams in the country.

With an eye on the future, Tribble says her participation in the National Sports Festival III may pay dividends in years to come.

"It will give Clemson some needed national recognition," she says, "which will aid in recruiting new players."

#### **LEBLANC TAKES REYNOLDS PRIZE FOR BEST ARCHITECTURAL DESIGN**

Architecture graduate student Christian LeBlanc has been named the University's winner of the 1981 Reynolds Aluminum Prize for Architectural Students.

The annual prize competition was established in 1961 by Reynolds Metals Co. of Richmond, Va., and is administered by the American Institute of Architects.

Awards are presented to students at participating schools of architecture for "best original architectural design in which creative use of aluminum is an important contributing factor."

LeBlanc will receive a certificate and a \$300 check for his design of an aircraft hangar for the elite Air Force fighter pilot team the Thunderbirds.

His model places all maintenance and storage facilities underground, leaving a black, helium-filled canopy floating above the ground on cables -- creating a "man-made cloud" effect.

The design is based on technology he found in a 1935 textbook on helium airships and results in an inexpensive and highly mobile hangar.

LeBlanc's design now will be entered in Reynolds' national student competition. The national winner, selected by a jury appointed by AIA, will receive \$5,000 to be divided equally between the student and his or her school.



Bill Strong

#### **BILL STRONG BECOMES GRAPHICS SUPERVISOR**

Bill Strong, 26, joined the publications and graphics services staff May 7 as graphics supervisor. He succeeds Eve Gibson, who was promoted in March to graphics studio manager.

In his new position, Strong is responsible for designing publications and periodicals for academic and administrative units, the Cooperative Extension Service and the S.C. Agricultural Experiment Station.

For the past four years, he has worked for advertising agencies in the Greenville area, serving as a creative director and chief art director. He also has done extensive freelance work as a graphic artist and illustrator.

His work has appeared in publications ranging from Textile Industries, Textile World and Southern Textiles to Time, Newsweek and Sports Illustrated. In 1980 four of his projects won Addy Awards from the Advertising Federation of Greenville.

Strong attended the Ringling School of Art in Sarasota, Fla., in 1973-74 and earned his A.S. degree in 1977 from the Art Institute of Fort Lauderdale.

He and his wife, Ellen, live in Travelers Rest.

# THIS WEEK AT CU

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June 8-14

- WORKSHOPS
- 8-12 "Industrial Pollution Control." Sponsored by Professional Development; call 656-3308 for more information.
- 9 "Chemistry of Dyeing." Sponsored by Office of Professional Development; call 656-2200 for more information.
- 12-15 "Interactive Computing for High School Students." Sponsored by department of electrical and computer engineering, Riggs Hall. Enrollment limited to high school students; call 656-3308 for more information.
- GALLERY EXHIBIT 8-26 S.C. State Art Collection, containing mixed prints and paintings. Sponsored by College of Architecture, Rudolph E. Lee Gallery. Exhibit open weekdays 9 a.m. - 4 p.m., closed Saturdays, open Sundays 2-5 p.m.; call 656-3081 for more information.
- GENERAL NOTES
- 9 Film: "Secret of Dorian Grey," starring Helmut Berger, a man who sells his soul to remain eternally young. Sponsored by University Union, Edgar's, 9 p.m.; 50¢ admission charge.
- 11 Watercolor Painting short course begins. Sponsored by University Union; sign up at the Information Desk by June 8.
- 13 Trip to Six Flags over Georgia. Sponsored by University Union; sign up at the Information Desk by June 12. \$14 includes ticket and transportation.
- The following summer camps are co-sponsored by the recreation and parks administration department; call 646-7502 for more information.
- 14-Aug. 8 Camp Logan, a summer residential program designed to serve emotionally disturbed children from South Carolina. Co-sponsored by the S.C. Department of Mental Health.
- 14-25 Camp Sertoma. Traditionally designed to serve disadvantaged youth in a residential setting, programs are also available to youth with speech and hearing handicaps. Co-sponsored and financed by the Sertoma Clubs of South Carolina.







## UNIVERSITY TO OPERATE STUDENT POSTAL SERVICE

Effective July 1 the University will begin operating the on-campus postal service for students, Vice President for Student Affairs Walter Cox told the President's Council May 29.

University operation of the student post office will have no effect on U.S. mail service to academic and administrative buildings, Cox said.

He said interoffice mail service also will remain unchanged.

University employees will operate the campus station's mail processing equipment and will distribute U.S. mail to student post office boxes. The equipment and the boxes will be loaned to the

University by the U.S. Postal Service.

Routine services, such as the sale of stamps, will continue at the station, Cox said, but registered mail service will not be provided. Money orders will not be sold either.

Last January the Postal Service announced plans to start charging for campus mail boxes at the same rate used for boxes at main post offices. This would have resulted in an immediate increase from \$5 to \$16 per calendar year for students' boxes.

Since then, however, rent for a post office box has risen to \$20 per year.

The Postal Service agreed to delay raising mail box fees on campus to give University administrators and student leaders

*Continued on page 2.*

*A NEW HOME FOR FIREFIGHTERS -- University firefighters began operating from this new home base May 26, although it will take about a month before the move is complete, says Fire Chief Charles Owen.*

*The new fire station, located at the intersection of Perimeter and Harzog roads near U.S. 76, offers easy access to all points on campus, says Owen. The trucks, when responding to a call, will be able to avoid campus congestion, especially during football season, he says.*

*The old station will be renovated for use by the police department.*



*Continued from page 1.*

time to study less expensive ways of providing mail service to students.

With the University handling student mail, the box rental fee for next year will be \$15 or less, Cox said.

He said 840 new boxes will be added to the post office, bringing the total number of boxes to 7,420.

**Budget delays may cause problems for financial aid recipients**

In another report to the Council, Cox said students counting on financial aid for next year through federally funded programs may be caught in a bind if Congress does not pass the nation's 1981-82 budget before the fall semester starts.

He said the federal fiscal year does not begin until October and next year's budget may not get final approval until the middle of fall.

The University will not be able to confirm federal grants and loans to students until Congress allocates financial aid funds.

"We're optimistic about the amount of funding we'll receive," Cox said, "but if a student doesn't know how much he's going to get, that's going to have an effect on his decision about college."

He said approximately 40 percent of Clemson's students receive substantial financial aid.

He said students and their parents need to point out to their Congressmen the problems a late budget approval will cause financial aid recipients.

**Dealing with spending freeze requires good-faith effort**

University President Bill Atchley told the Council details remain unclear regarding the Budget and Control Board's May 12 order for state agencies to stop spending state funds for supplies and

equipment until July 1.

But, he said, indications are the board will permit agencies to buy supplies required for normal operation.

"We will process requests and orders for those things that are necessary," he said. "We'll act in good faith, and I expect you to show good judgment at all levels when something comes across your desk for approval."

Atchley said the state's 1981-82 appropriations bill is now before the full Senate Finance Committee.

He said the University will continue its efforts to get up to \$3 million in relief from the \$4.2 million shortfall Clemson faces in the current version of the budget bill.

**In other business before the President's Council:**

-- commission chairmen reported that work is continuing on defining areas of responsibility and structures for committees.

-- Provost David Maxwell said shortfalls in federal and state funding for next year may result in not enough sections being offered in some courses. He said it is too early to tell for sure what the exact situation will be.

-- Council members were told that Alumni Reunion Weekend will be June 12-14 and that the Board of Visitors will be on campus Nov. 15-17.

#### **SIRRINE READY FOR OCCUPANCY WHILE HAMMERS STILL POUND AT TILLMAN**

Sirriner Hall renovations have been completed, and the building is ready for occupancy, says Jerry Boyer, superintendent of planning and engineering in the physical plant division.

But work on Tillman Hall will continue into the fall, he says.

The Sirrine renovation, originally esti-



mated to cost about \$3.7 million when begun in January 1979, included a rearrangement and remodeling of virtually all office and classroom space and the creation of new offices and labs in the former attic of the building.

Also included in the overhaul is a new air conditioning system and a rebuilt electrical system, as well as new, thermal efficient windows and a chemical storage building, says Boyer.

Accounting, economics and industrial management faculty members have spent the first week of June moving into their new quarters, says Thomas Efland, acting dean of the College of Industrial Management and Textile Science.

Efland says that the new arrangement of offices and classrooms is "more useful to the purpose" of the building, and that the new seminar rooms make a "first class place for continuing education workshops."

Faculty members have had to move their offices several times during the course of the renovation and have had to triple and quadruple up on office space. "Most people are fed up with moving," says Efland, "but many feel that the trouble was worth it."

The addition of the new offices and labs in the former attic increases the usable space in the building to 160,000 square feet, making Sirrine the largest academic building on campus, says Efland.

The Tillman renovation, started in January 1979 at an estimated cost of more than \$4 million, includes an excavation of the basement and remodeling of the chapel and the first through the fourth floors.

Fire-safety improvements include new fire exits and a sprinkler system. The fourth floor, previously closed as a fire hazard, will reopen with new offices and classrooms.

An addition containing restrooms, stairs, elevators and other mechanical equipment

is being built on the west side of the building.

The hallways on the second through the fourth floors have been narrowed to make more classroom and office space, says Boyer, but the first floor corridor will be restored, keeping its original look.

"The wooden doors and trim, the transoms and the high ceiling will all be kept," says Boyer. "At one time, every student attending Clemson had to pass through that corridor. When alumni return to visit, they'll still recognize Tillman Hall."

A new seating arrangement, larger backstage facilities, a new stage and sophisticated sound and lighting equipment will be found in the refurbished auditorium, says Boyer.

"Although the number of seats will be reduced from about 1,200 to 870, every chair will have good sight lines," he says. "For its size, it will be a first-rate facility."

"Unforeseen problems," however, such as deteriorating roofing members, an unusual attic frame structure, and other structural problems, have slowed progress on the renovation, says Boyer.

"We've found some surprises in the structure of the building," he says. "Some of the walls we thought to be load bearing turned out not to be. We've had to replace many of the beams." Work on the building should be completed by mid-September.

#### BLUE CROSS/BLUE SHIELD RAISES MEDICAL INSURANCE FEES

Premiums for those employees covered by state health insurance (Blue Cross/Blue Shield) will increase July 1, says Ron Herrin, director of payrolls and employee benefit programs.

Only those employees on plan A, basic insurance for the employee only, will be

*Continued on page 4.*



*Continued from page 3.*

exempt from the increase. Their premiums will continue to be paid entirely by the University.

The increases vary according to type of coverage and the number of family members covered, says Herrin.

According to the State Personnel Division insurance unit, says Herrin, the state lost several million dollars last year to excess claims, thus necessitating an increase in premiums this year.

The increases are based on analysis by the State Personnel Division's own consultants and Blue Cross/Blue Shield, he says.

The employer's portion of the premiums paid into the state insurance program has also increased, says Herrin, rising from \$30.01 to \$38.96.

#### NO REPORT YET FROM NCAA ON RECRUITING PROCEDURES

University President Bill Atchley said last Thursday that no new information has been received about the National Collegiate Athletic Association's look into Clemson football recruiting procedures.

"Apparently there are a lot of rumors going around about what the NCAA has told us," he said. "I know the athletic department and others have gotten a number of calls from people wanting to know what the situation is.

"But the only thing we can say right now is that NCAA representatives have been to campus to discuss recruiting procedures and we're waiting to hear back from them."

"We'll continue to cooperate with the NCAA in every way we can," he said. "And I assure you once we get a report or any new information from them we'll let everybody know how things are."

The recruiting procedures under study

involve the signing of two football prospects from Knoxville, Tenn., to grants-in-aid.

#### SPECIAL RADIO PROGRAM WILL EXPLORE HUMANITIES

If you wish to "explore the humanities," tune in to WEPR (FM 90) Wednesday, June 10, at 6:30 p.m.

The relevance of such studies as theology, philosophy, history, literature and languages to modern life will be explored in the program "Rediscovering the Humanities," which will be aired over the South Carolina Educational Radio Network.

The program, produced by WEPR, is the brainchild of local writer Robert T. Sorrells, and grew out of the Medical University of South Carolina's hosting of the Southern Humanities Conference last February.

"I was intrigued by the fact that a medical university was hosting a conference on the humanities," says Sorrells. What he discovered in Charleston was that many medical schools have taken the lead in demanding that their graduates know more about the world in which they will practice than only human anatomy and the physical sciences.

Sorrells and the voices heard on "Rediscovering the Humanities" believe that one remedy for an American society that has lost its way is the panoramic view that students discover when they experience the humanities. "The humanities can help us rediscover our roots and re-establish our sense of community," he says.

"In its own modest way I hope the program will help people begin to see things whole again." Sorrells hopes the one-hour pilot program will spawn a series of 13 half-hour shows examining in greater detail the value of the humanities in American life.

"Rediscovering the Humanities" was produced with support from the S.C. Committee for the Humanities and the University.

June 9, 1981

A new addition to WEPR's regular schedule, is "Star Date," a daily five-minute program that keeps listeners in touch with the latest discoveries in the universe. It can be heard weekdays at 7:25 p.m.

"We really like this program a lot," says station manager Lily Hall. "If a child or adult has any scientific bent, this program could stimulate a lifelong interest. Besides, it's fun to know what planets can be seen at night."

WEPR is subscribing to "Star Date" until June 30 through a special introductory offer, says Hall. Whether the program continues after June 30 depends on listener interest, she says.

#### TOUR COORDINATOR SEES THAT PEOPLE SEE THE SIGHTS

When it comes to making sure Clemson University lives up to its goal of being "a people's university," Nola Jernigan has had a lot of practice.

In fact a major part of her job is seeing to it that all sorts of people get a good look at what Clemson University is all about.

Jernigan is campus tour coordinator -- the person who handles the details associated with visits to campus by groups ranging from Boy Scouts to second graders to legislator's wives to senior citizens.

"Many people on campus don't know there is a campus tour coordinator," says Jernigan, whose been at the job five years. "We'll be glad to work with anyone to arrange any type of tour."

From September 1980 through May 1981, about 8,000 people have seen the sights around campus on tours arranged by Jernigan and John Allen, head of special campus programs. Allen also supervises the operation of the Calhoun Mansion and the Hanover House, all as part of the department of information and public services' special campus programs office.

After being contacted by the group re-



*Jernigan*

questing a tour, Jernigan will set up a time schedule and seek permission from those departments the group wishes to visit.

Then she'll send back a confirmation letter, including a schedule, to the group and alert the dining halls, local restaurants, and the ag sales center to expect a possible influx of customers

Coordinating tours for the handicapped carries special meaning for Jernigan, whose son has a hearing impairment.

For the deaf and hard of hearing, library employee Peggy Black, who's skilled in sign language, serves as tour guide.

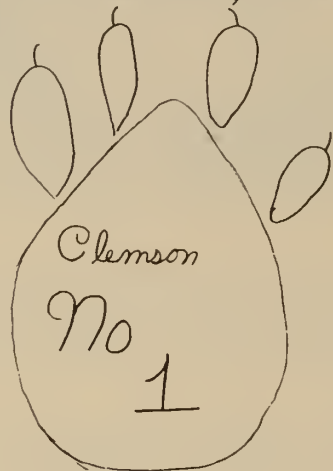
"With blind people, a tour guide must take special care to describe things in detail and to allow visitors to touch things whenever possible," Jernigan says.

To her, arranging tours is both challenging and rewarding. "When you have four or five groups on campus, it's a challenge to coordinate the tours so that two or more groups aren't at the same place at the same time," she says.

Her reward comes in the form of letters of appreciation from those who have toured the campus. She especially enjoys hearing from younger visitors -- such as the seventh-graders from Wren Middle School in Piedmont who were here in April. Four of the letters she received from them appear on the next page.

## LETTERS TO CAMPUS TOUR COORDINATOR FROM YOUNG VISITORS (see related story on page 5).

Dear Ms. Ternigan 4-28-80  
 I enjoy my self and I liked the  
 WEPR Clemson house and my freind  
 fell in the mud puddel and got  
 muddy I liked the pizza and I liked  
 watching the women very much



Sam Matthews

Dear Ms. Ternigan

I enjoyed my trip and the places  
 we went and I hope we get to go again  
 and the main thing I hated is Death vally  
~~and~~ and the main thing I liked is the mr knicker-  
 bockers when we went to the Horticultural  
 Garden tim bagwell and russle duckworth was  
 chasing me and I was going to jump over the creek  
 and my foot slipped and I fell in the mud  
 and my teacher Duncan took a picture and every  
 one laughed

Signed  
 by  
 Mr Keith Williams

Dear ~~me~~ Ms. Ternigan 4-28-80  
 Thank for letting us come to Clemson  
 And I enjoy it and I hope to come a  
 gain I like the football and John C Calhoun  
 mansion and most of all I like the handover house  
 the most of all and the Horticultural garden was  
 the prettiest of all the radio station was ok and thank  
 for letting us come I enjoy it very much

Thank  
 alot  
 sign  
 Joey  
 Todd  
 Williams

Dear ms. ternigan

thank you for letting us come  
 to Clemson and I like Death vally.  
 I hope you will let me come  
 back when I get in the 8th grade.  
 I liked all of the other things to  
 thank again.

sign Lee Roach

CLEMSON  
 Tigers



# THIS WEEK AT CU

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JUNE 15-21

## WORKSHOPS

- 15 "From Secretary to Administrative Assistant." Sponsored by Professional Development; call 656-2200 for more information.
- 15-16 "Pre-Supervisory Training." Sponsored by Professional Development; call 656-2200 for more information.
- 17-19 "Nursing Theory Development." Sponsored by the continuing education department, College of Nursing; enrollment limited to nurses with a master's degree in nursing or related field. Call 656-3079 for more information.
- 19 "Positive Discipline." Sponsored by Professional Development; call 656-2200 for more information.
- 19-22 "Interactive Computing for High School Students." Sponsored by the department of electrical and computer engineering, Riggs Hall. Enrollment limited to interested high school students. Call 656-3308 for more information.

## GENERAL NOTES

- 15 Live Entertainment: "Moonpie." Sponsored by University Union, Edgar's, 9 p.m. 50¢ admission charge, ID and proof of age required.
- 16 Film: "The Silencers," a spy spoof starring Dean Martin. Sponsored by University Union, Edgar's, 9 p.m.; 50¢ admission charge.
- 18 Live Entertainment. Sponsored by University Union, Edgar's, 9 p.m.





June 16, 1981  
Vol 20 No 31

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



## UNIVERSITY TO HOST AG ECON CONFERENCE

More than 1,000 agricultural economists will be on campus July 26-29 for the 1981 annual meeting of the American Agricultural Economics Association.

The conference, sponsored jointly by AAEA and the Southern Agricultural Economics Association, will be hosted by the department of agricultural economics and rural sociology.

Ag econ professor Bobby Robinson, chairman of the conference steering committee, says approximately 200 papers and symposia will be presented.

He says ag economists from land-grant universities, agriculturally oriented industries and government agencies from all across the country -- as well as from Canada, Mexico, Europe and other parts of the world -- are expected to attend.

Featured speakers for the conference include Kenneth Boulding of the Univer-

sity of Colorado, who has written on topics ranging from economic theory to economics in four-letter words.

A highlight of the meeting will be recognition of AAEA Fellows, among whom is Clemson's own George Aull, who retired as ag econ department head in 1963. Aull also is a former president of what is now AAEA.

Current department head Ed Faris says the University's invitation to host the conference was accepted after visits to campus by AAEA representatives.

This will be the first time an AAEA annual meeting has been held here.

## EMORY JONES APPOINTED COUNTY EXTENSION LEADER

Emory Jones has been named Extension leader for Pickens County.

The appointment is effective July 1, according to Wayne T. O'Dell, director of  
*Continued on page 2.*

## THE FASTEST HANDS IN THE SOUTH --

*These youngsters are working on their dribbling abilities under the supervision of David Riggin, head coach at Greenville's Wade Hampton High School, during a typical day at Tiger Basketball Camp, June 7 - 12. Also scheduled for the summer are three more basketball camps for boys and two for girls, as well as camps for football, soccer, swimming, tennis (boys and girls), and wrestling athletes.*





*Emory Jones*

*Continued from page 1.*

the Cooperative Extension Service. As county leader, Jones will coordinate Extension programs in agriculture, community and youth development, and home economics.

Jones, 40, is currently a University horticulture specialist. A native of Pickens County, he lives in the Dacusville community.

A holder of B.S. and M.S. degrees in horticulture from the University, he worked as assistant Extension agent in Cherokee County before joining the staff here in 1967.

For the past 10 years he has been featured on the "Plant Professor" program, which has been carried by 60 radio stations and several television stations around the state.

"Pickens County has had a strong Extension history going all the way back to the first county agent," Jones says. "Currently the 4-H and home economics programs are very strong. I hope to expand Extension services to all county residents in all areas of agriculture, community development and home improvement."

He is married to the former Joy Connelly of Pickens. They have three children, Tony, Paula and Joel, who are enrolled in public schools in the county.

## TWO STUDENTS SELECTED FOR POOLE SCHOLARSHIPS

Dawn Hayes of Piedmont and Gwendolyn Logan of Gaffney have been awarded R.F. Poole Alumni Scholarships.

Hayes, an entering freshman and Palmetto High School graduate, will pursue an electrical engineering degree.

She earned numerous academic honors while in high school, including a Phi Beta Kappa award and membership in the National Honor Society.

She was a Furman Scholar and valedictorian of her senior class.

Logan is a rising senior majoring in accounting. During her three years at the University, she has maintained a 4.0 grade point average.

Poole Scholarships are supported by the Alumni Association through the Alumni Loyalty Fund. The \$2,000 awards are renewable each year as long as recipients maintain grade averages of at least 3.0 and make normal progress toward graduation.

The scholarships are named for the University's seventh president, the late R.F. Poole, who served from 1940 to 1958.

## FINANCIAL FILE GIVEN TO COOPER LIBRARY

Financial data on 4,500 publicly held companies which have stock traded on the two major exchanges and over-the-counter are now available as a microfiche set at the Robert Muldrow Cooper Library, says Maureen Harris, special collections librarian.

The set, the Corporate Microfile, was given to the library last month by the South Carolina State Library in Columbia, she says.

More than 1,400 microfiche containing information compiled from some 14,500 documents -- corporate annual reports, proxy

statements, and reports filed with the Securities and Exchange Commission -- are included in the set. The data cover the period 1978-80.

Harris says the set should be especially useful to business students, professors and executives involved in research.

Produced by the National Data Bank of St. Petersburg, Fla., the set was one of 10 donated by the company to the state library.

#### THERE'S LITTLE TIME TO BE LONELY WHEN YOUR BUSINESS IS CLEAN CLOTHES

A popular TV commercial says it's lonely being a washing machine repairman -- if you work for a certain company -- because you've got so little to do.



*Crayton Brock is succeeding Thomas Rhymes (inset) as University laundry services director.*

Well, as Crayton Brock is finding out, having too little to do is not one of the problems of the University's laundry services director.

Brock is preparing for that post under the guidance of current laundry director Thomas Rhymes, who'll be retiring at the end of this month.

Since joining the University May 27, Brock has learned quite a bit about supervising the campus linen, uniform rental, laundry and dry cleaning services.

You might say he's become well acquainted with the nuts and bolts of the 87 washers and 73 dryers located in eight buildings across the campus.

But Brock, 41, is no newcomer to the laundry business. He's spent the last 17 years with King's Cleaners and Laundry in Seneca, where he worked his way up from trainee to owner and operator.

Retiring director Rhymes will be leaving a laundry services program quite different from the one he began supervising in 1957.

Back then, students paid for laundry service through their tuition, and each could bring in a 40-piece bundle once a week.

In those days, Rhymes reflects, there were 119 employees, and the laundry cleaned more than 2 million pounds of clothes each year.

All that changed in 1962, when, because of student demand, coin-operated washers and dryers were installed on campus, he says. Most students started doing their personal laundry themselves.

Today, the number of laundry service employees is 20.



# THIS WEEK AT CU

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June 22-28

- 22 Live entertainment. Sponsored by University Union; Edgar's, 9 p.m.
- 22-23 Summer orientation for incoming freshmen and their parents.
- 24-25 Final exams.
- 25 Workshop: "Sales Techniques." Sponsored by the Small Business Development Center, Sirrine Hall, 9:30 p.m. Registration fee is \$10. Call 656-3227 for more information.
- 26-29 Workshop: "Interactive Computing for High School Students." Sponsored by the department of electrical and computer engineering, Riggs Hall. Enrollment limited to interested high school students. Call 656-3308 for more information.



JUN 24 1981

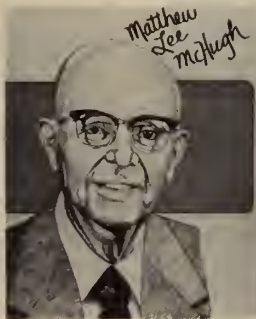
CLEMSON UNIVERSITY LIBRARY  
SOUTH CAROLINA 29634



*Louis P.  
Batson*



*Frank  
Hubbard*



*Matthew  
Lee  
McHugh*



*Marvin  
McClam*



*Lawrence  
V. Starkey*

## ALUMNI AWARDS, ATCHLEY ADDRESS HIGHLIGHT 1981 REUNION WEEKEND

Presentation of five Alumni Distinguished Service Awards and University President Bill Atchley's "State of the University" address highlighted this year's Alumni Reunion Weekend June 12-14.

The service awards, the highest honor given by the Alumni Association, were presented at the reunion banquet June 13 to Louis Batson '48, Frank Hubbard '40, Matthew McHugh '19, Marvin McClam '43, and Lawrence Starkey '56.

The awards recognize alumni whose "personal life, professional achievements, community service and loyalty to Clemson best exemplify the objectives of Clemson University."

Batson, a Greenville native and current resident, earned his B.S. degree in textile engineering. He built a small textile company that employed four people in 1948 into a 70-employee enterprise today composed of four separate corporations. In 1979 state legislators elected him to the University's Board of Trustees.

The 61-year-old Hubbard was born in Florence but now lives in Orlando, Fla., where he controls Hubbard Construction Co. He came to Clemson in 1936 but had to leave school, when his father suffered

a heart attack, to work in the family construction business. He is a director of two banks, a board member of Florida Power Corp. and a trustee of three schools.

McHugh is from Columbia, although he grew up within earshot of the Clemson campus. Three years after receiving his B.S. degree in botany, he established Clemson's first disabled soldiers program and has been active in veterans services ever since. He retired from the Veterans Administration in 1962 and helped set up the S.C. Commission on Aging in 1965.

Holding a B.S. degree in agricultural education, McClam is based in Raleigh, N.C., as president of FCX Inc., a farm and garden supply conglomerate. FCX will gross \$600 million this year, making it the largest firm of its kind in the Carolinas. McClam serves or has served on the boards of directors of a dozen organizations, including the National Council of Farmer Cooperatives in Washington, D.C.

At age 20, Starkey earned a B.A. in English. He earned his law degree at the University of South Carolina and then began a 15-year career with the Internal Revenue Service. In 1974 he formed his own law firm in Atlanta, where he now lives. He is a former president of the Alumni Association and is currently secretary-treasurer of IPTAY.

*Continued on page 2.*

*Continued from page 1.*

Atchley tells alumni  
private support critical

In his "State of the University" message during Reunion Weekend, President Atchley said now more than ever before the University must look to private support for vital programs.

He said state support for higher education is no longer adequate, and the University is trying to find ways to cope with diminished financial resources.

He said the University will continue to use good management practices and will use its resources to the best advantage of the people of the state.

In addition, he cited efforts of the President's Statewide Advisory Group as instrumental in getting important fiscal issues before the public and to decision-makers across the state.

Atchley also reported to alumni on plans to launch a multi-million dollar capital campaign called "Clemson's Centennial Fund -- A Challenge to Greatness."

He said directors of the Clemson University Foundation have approved preliminary plans for the campaign. The proposal now goes to the Board of Trustees for approval.

Thanking alumni for their loyalty and generosity in the past, Atchley called attention to the national recognition the University has received for its outstanding support from former students.

#### MAXWELL NAMES VICE PROVOSTS

Provost David Maxwell announced last week that Jerome V. Reel and Arnold E. Schwartz have been named vice provosts.

The appointments, effective July 1, represent changes of title for the two men, each of whom will continue with his present duties.

Reel, currently assistant to the provost, supervises the Office of Undergraduate Studies, the University library, the Honors Program, career workshops for minority students, continuing education and summer sessions.

He also assists the provost in the administration of academic personnel and chairs the Commission on Undergraduate Studies and the Undergraduate Curriculum Committee.

Schwartz, who is dean of the Graduate School, is responsible for all University graduate programs, off-campus programs, utilization of academic facilities and management information for the academic divisions.

He chairs the Commission on Graduate Studies and Research and the Graduate Curriculum Committee.

#### BENNETT, PRZIREMBEL SELECTED TO HEAD ENGINEERING DEPARTMENTS

Two new department heads have been named in the College of Engineering.

A. Wayne Bennett will head the department of electrical and computer engineering, and Christian E. G. Przirembel will take over the reins in mechanical engineering.

Both will arrive on campus in early August.

Bennett, 44, is now a professor of electrical engineering and computer science at Virginia Tech and chairman of that school's computer engineering group.

He is a native of Rocky Mount, Va., and a 1960 graduate of Virginia Tech, where he also earned his M.S. degree. He received his Ph.D. from the University of Florida in 1966.

Bennett is a specialist in the field of computers and control systems. He was a member of the Virginia State Council on Higher Education task force on computer networking and is the author of several texts, including "Introduction to Computer



Simulation," published in 1974.

He and his wife Shirley will live in Clemson with their two children, Beth, 18, and David, 14.

Prziembel, 39, was educated at Rutgers, receiving his B.S. degree in 1963, his M.S. in 1964 and his Ph.D. in 1967.

He has been associated with the school ever since, most recently as a mechanical engineering professor and associate dean of engineering.

Prziembel has published more than 50 papers in his areas of research interest, which include wind engineering, aerodynamics of ground vehicles, and simulation of atmospheric flows.

A native of Brunn, Germany, he and his wife Donna plan to live in Clemson with their two children, Christian, 16, and Dawn, 13.

#### NEW FENCE HELPS ENFORCE EAST BANK REGULATIONS

You may have noticed that the University's East Bank Recreation Area has a new face -- well, actually, it's a new fence.

It's part of the University Union's effort to tighten security and increase safety at the area.

Union operations director Andy Harris says fencing in the beach area and roping off the swimming spot will enable the Union to enforce existing rules governing park hours and use and will help prevent vandalism.

The fence was erected June 11, and since then lifeguards have been checking IDs at the park entrance. Only students with valid activity cards or fee assessment cards and faculty and staff members who hold Fike Recreation Center memberships are admitted.

Each authorized user may bring one guest.

The requirement that faculty and staff



*The new fence at East Bank beach is designed to keep the area safer and cleaner.*

members must be members of Fike to use East Bank is under review, Harris says, since some employees who don't use Fike's facilities would like to take advantage of East Bank.

He says Union director Butch Trent is working on a proposal to establish a special East Bank fee for employees who are not Fike members.

Operating East Bank is paid for by user fees, including student activity fees, Harris says.

Because of vandalism, East Bank maintenance costs have been high. Says Harris, bottles have been broken on the beach, restrooms have been vandalized, and building walls have been dismantled for use as firewood.

"We feel that most of the damage is done after dark by people not associated with the University," he says. "The fence, allowing us to enforce park hours, will help control vandalism."

East Bank is open from noon to 7 p.m. daily and may be reserved for use after hours by campus groups. Neither children nor pets are permitted. Bottled beverages are prohibited as well.

Harris says reaction to the changes at East Bank has been generally favorable. Joggers may have to take a 25-foot detour around the new fence, but "many faculty and staff members and students accept the changes," he says.



# THISWEEK AT CU

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June 29 - July 5

29 Edgar's reopens from 4:30 to 12:00 midnight,  
Monday - Friday. Sponsored by University Union.

30 Watermelon Giveaway from 12 - 2 p.m. in front of  
the University Union. Sponsored by University  
Union.

30 Registration, second summer session.

1 Classes begin, second summer session.

3 - Aug. 28 Gallery exhibit: examples of student work in art,  
architecture and planning. Sponsored by the Col-  
lege of Architecture, Rudolph E. Lee Gallery.  
Open 9 a.m. - 4:30 p.m. weekdays; call 656-3081  
for more information.



June 30, 1981  
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## CHAMPION TARGETS CLEMSON FOR SUPPORT IN THE 1980s

"To be the company we want to be, we need quality engineering people."

"We believe Clemson is providing the quality education that our future engineering needs are going to require."

Those two points have prompted Champion International Corp., a forest products company with employees based at more than 400 locations around the world, to target Clemson for contributions and support in the 1980s.

So says Champion vice president Pete Howard, operations manager of the company's Courtland, Ala., plant.

Howard, a 1955 Clemson graduate, says Champion is especially interested in supporting the University's forestry and engineering programs.

He says Auburn, Georgia Tech and N.C. State are also on Champion's target list for the '80s.

The company already has helped back Clemson's Minorities in Engineering Summer Program and recently handed Provost David Maxwell a \$1,500 check for forestry and engineering support.

In addition Champion has given a scale model of the Courtland pulp and paper facility Howard supervises to the forestry department for use in research and teaching. The facility is one of the most technologically advanced of its kind.

Howard says another reason Champion picked Clemson to support is the quality of the Clemson graduates employed by the company.

"An important factor in our decision was that we already have good Clemson people working for us," he says, adding that the company will be looking to hire more Clemson students in the years ahead.

"We were more successful (in recruiting at Clemson) this year than in any year in the past," he says. "And we have high hopes for the future."

That attitude, says University student placement director Al Mathiasen, is not uncommon in the business world.

"When a company has successfully recruited good students from a school year after year and is convinced of the productivity of a school's program, the company is going to zero in on that school for more recruiting and more support," Mathiasen says.

He says this, in effect, makes student placement and University development a "joint effort" producing positive results for individual students, the University, and business and industry.

University development director Jim Strom agrees.

Says Strom, "A company wants to concentrate its gifts at schools with proven records of excellence in fields directly related to its business, and that's good news for Clemson.

"We have historically had a good relationship with industry, our programs are top-quality and highly productive, and the caliber of our graduates has been consistently high.

"A company is going to want to hire those graduates and, therefore, is willing to help support those programs."

## ACTING HEAD NAMED FOR HORTICULTURE

E.T. Sims Jr. has been named acting head of the horticulture department, assuming the duties of retiring head T.L. Senn.

Beginning as an assistant professor in 1962, Sims has been at Clemson for 19 years. A native of Atlanta, he is a graduate of the University of Georgia and received his master's and doctorate degrees from Ohio State University.

Sims has served two terms in the Faculty Senate and is chairman of the department's graduate teaching committee. He is a member of the Society of the Sigma Xi, Phi Kappa Phi, Alpha Zeta, Gamma Sigma Delta, the American Society for Horticultural Science, American Society of Plant Physiologists, the National Peach Council and the Produce Marketing Association.

## CLEMSON PLAYERS TO STAGE FIRST SUMMER PERFORMANCE EVER

Scene one is 1963 in their high school gymnasium. Scene two is 1968 in their college sorority house. Scene three is 1974 in a New York City apartment.

Those are the settings for the first-ever summer performance to be staged by the Clemson Players. The play, "Vainities," is a 1976 off-Broadway comedy hit that recounts the lives of three typical American girls during a crucial 10-year span of growth and maturity.

Sponsored by the University Union, "Vainities" will be performed July 30, 31 and Aug. 1 by the Clemson Players at 8 p.m. in the Daniel Hall Annex. Also slated is a special 3 p.m. matinee Aug. 1.

The cast of "Vainities" includes Diana Kirk of Atlanta, Jan Haskell of Clemson and Kelli Grant of Aiken. The show is directed by Larry Hembree of Greenwood. Scenographer is Rob Evans of Clemson.

Admission to "Vainities" is by reserved ticket only. All seats are \$1 and can

be reserved by calling the University Union, ext. 2461, from 1-4:30 p.m. Tickets go on sale July 15.

## AGRONOMY AND SOILS

J.H. Palmer (Prof) received a grant of \$300 from BASF-Wyandotte Corporation to study the effect of various row spacings and plant populations on soybean yields in South Carolina.

## ANIMAL SCIENCE

R.L. Edwards (Prof) spoke to the adult farmers class at Oakway High School May 9 on "Symptoms of Nutritional Deficiencies in Beef Cattle."

John C. Spitzer (Assoc Prof) received two gifts of beef bull semen -- one, valued at \$1,000, from Branch and Assoc. Farm Mgt. Inc. of Covington, Ga., and another, valued at \$680, from Graham K. DuBose of Rembert -- in support of research in reproductive physiology.

Dale L. Handlin (Assoc Prof) was selected by the American Society of Animal Science board of directors to serve on the 1981-82 Teaching Program Committee. He was also awarded the honorary state FFA degree by the North Carolina FFA Association for his interest, support and contributions to vocational agriculture and the FFA.

Richard Godbee (Asst Prof) presented a paper, "A Comparison Study Using SEM of Cell Wall Attachment and Degradation in Ruminants and Non-ruminant Herbivores," at the Seventh Equine Nutrition and Physiology Symposium in Warrenton, Va., April 30.

Also at that meeting, Larry W. Hudson (Assoc Prof) coordinated and served as moderator of the inaugural extension session May 1.

## BIOCHEMISTRY

Carolyn S. Brown (Asst Prof) was awarded

an Eloise Gerry Fellowship for a proposal, "The Mechanism of Action of Tyramine on Murine B<sub>16</sub> Melanoma Cells."

Prof. Brown, A.P. Wheeler (Asst Prof, Biol) and Cathy Nestler (Former Grad Stu, Zool) published a paper, "Biogenic Amines in the Nervous System of the Boll Weevil, Anthrenus grandis," in Comp. Biochem. and Physiol., 69C (1981), pp. 53-60.

## BOTANY

John E. Fairey III (Assoc Prof) has been elected vice president of the Southern Appalachian Botanical Club, which publishes the botanical journal Castanea. Prof. Fairey also chairs that club's Constitutional Review Committee.

## CHEMICAL ENGINEERING

Dan D. Edit (Assoc Prof) received an unrestricted research grant of \$7,500 from the Chevron Corp. to fund study in polymer processing.

J.M. Haile (Assoc Prof) presented an invited seminar, "Determination of the Triplet Correlation Function in Dense Fluids by Computer Simulation," May 27 at the Chemistry Division of the Oak Ridge National Laboratory in Tennessee.

## CHEMISTRY AND GEOLOGY

J.W. Huffman (Prof) and G.F. Hillenbrand (Grad Stu) published a paper, "Synthetic Approaches to Polyhydroxyarofurans," in Tetrahedron, 37, Supplement 1 (1981), 269. This paper appears in a special edition of Tetrahedron dedicated to the memory of Prof. R.B. Woodward, the 1965 Nobel Laureate in chemistry.

John D. Petersen (Asst Prof) presented a seminar, "Photochemistry of d<sup>6</sup> Transition Metal Complexes: Theory and Applications," May 13 at the Athens-Atlanta Inorganic Seminar Series at the Univ. of Georgia.

Prof. Petersen also presented a paper,

"Formation Rates, Stabilities, and Photochemistry of Mixed Metal Dimers," at the fifth Department of Energy Solar Photochemistry Research Conference May 27-29 at the Brookhaven National Laboratory in Upton, N.Y.

## CIVIL ENGINEERING

Ben L. Sill (Assoc Prof) presented a paper, "Evaporation from Heat Loaded Lakes: A Summary," and chaired a technical session at the Conference on Waste Heat Management and Utilization in Miami, Fla., May 11-13.

Prof. Sill received a grant of \$13,400 from MIT/EPRI to conduct field studies this summer on evaporation on small heated lakes in southern California.

## CONTINUING EDUCATION IN NURSING

Ann Rawlings (Vstg Instr) was selected by the American Association of Critical-Care Nurses to be an item-writer for the national certification examination in critical care nursing.

## ECONOMICS

Hugh Macaulay (Alumni Prof) was invited by the International Studies Institute to lecture on "The Role of Business in Society" at the Univ. of Tenn. at Chattanooga July 26-31. This program is for secondary school teachers of business education and social studies and is one of three in the United States.

## EDUCATIONAL SERVICES

D. Henry Pate (Prof) and Gary E. Campbell (Stu Dev Spec) gave an invited presentation, "Computer-assisted Teacher Placement System," to the South Carolina School-to-Work Committee in Columbia March 18.

*Continued on page 4.*



*Continued from page 3.*

#### ENGINEERING TECHNOLOGY

Carl R. Lindenmeyer (Assoc Prof) received the "Award of Excellence" from the Greenville-Spartanburg Chapter of the American Institute of Industrial Engineers in Greenville May 15. This award, which has not been given for a number of years, was made in recognition of Prof. Lindenmeyer's contributions to the profession and the Institute.

#### ENGLISH

Sterling Eisiminger (Assoc Prof) published "Travels with Telemachus," "Holiday Repose," and "The Comeuppance," three poems in Rendezvous 15, No. 2.

Malcolm O. Usrey (Assoc Prof) published "America's Gift to British Children: The Tall Tales of Joan Aiken," in the Proceedings of the Sixth Annual Conference of the Children's Literature Association (Villanova, Pa.: Villanova Univ., 1980), pp. 196-203.

#### ENVIRONMENTAL SYSTEMS ENGINEERING

Alan W. Elzerman (Asst Prof) presented an invited paper, "Modeling Trace Metals in the Surface Microlayer," at the International Association of Great Lakes Research Annual Conference at Columbus, Ohio, April 27.

#### EXTENSION HOME ECONOMICS

Janice R. McRee (Asst Prof) was the state representative on a national EFNEP program review team which studied Virginia Tech's program May 4-8. Four federal representatives were also members of the review team.

#### FINANCIAL AID

Marvin G. Carmichael (Dir) has been elected a member of the nominations

committee of the National Association of Student Financial Aid Directors, which represents more than 2,800 colleges and universities nationwide. Carmichael, already president of the organization's South Carolina chapter and treasurer for the regional group, will help select a slate of officers to be elected by the association's membership. He represents the association's southern regional schools on the committee.

#### FOOD SCIENCE

James C. Acton (Prof) presented an invited paper, "Meat Emulsion Systems," at the New York section of the Institute of Food Technologists' Emulsion Technology Course April 14.

Donald M. Henricks (Prof) presented a seminar, "Factors Affecting LH and Pro-lactin Secretion and Post-partum Anestrus in the Beef Cow," May 5 at the University of Florida at Gainesville.

Charles V. Morr (Stender Prof) published a paper, "Emulsifiers: Milk Proteins," in "Protein Functionality in Foods," edited by John Cherry (USDA), in Amer. Chem. Soc. Symposium Ser. 147 (1981).

Prof. Morr also presented a paper, "Milk Proteins," in March at the IFT Eastern Editorial Conference in Richmond, Va.

Syed S.H. Rizvi (Asst Prof) presented a paper, "Nutritional Retention of Retort Pouched Foods," in March at the 35th annual meeting of Research and Development Associates for Military Foods and Packaging Systems in Philadelphia, Pa. He also presented a paper, "Perishable and Thermo-stabilized Food Packaging in Polymeric Films," at the 41st annual meeting of the Institute of Food Technologists June 7-10 in Atlanta, Ga.

Prof. Rizvi has published: "Requirements for Foods Packaged in Polymeric Films" in "CRC Critical Reviews," Food Sci. and Nutr. 14(2) (1981), pp. 111-134; "Developing Successful Packages" in Package Engineering Encyclopedia 26(4) (1981), pp. 19-22;

and "Rheological Properties of Continued Meat Systems" in Food Technol. 36(5), pp. 238-243.

The following papers were presented at the South Carolina Academy of Sciences meeting in Columbia in March.

-- "Activated Carbon Adsorption of Phenolic Compounds from Soy Protein Products," James S. How (Grad Stu) and Prof. Morr.

-- "Phytate Removal from Soy Proteins," James R. Brooks (Grad Stu) and Prof. Morr.

The following papers were presented in February at the Southern Agricultural Workers meeting in Atlanta, Ga.:

-- "Hypertension in South Carolina Adolescents Attending 4-H Camp Bob Cooper," Denis Medeiros (Grad Stu), Robert F. Borgman (Prof) and Stephen F. Lightsey (Res Spec).

-- "Relation of Hair Element Content of Hypertension in South Carolina Adolescents," Prof. Borgman, Lightsey and William R. Roberts (Assoc Prof).

The following papers were presented at the Federation Proceedings April 12-17 in Atlanta, Ga.:

-- "Hypertension in Clemson Students," Fed. Proc. 40: 535, No. 1741 (1981), by Medeiros and Prof. Borgman.

-- "Water Hardness and Cadmium Effects Upon Lipid Metabolism in Rabbits, Fed. Proc. 40: 934, No. 3993 (1981), by Prof. Borgman and Lightsey.

#### 4-H (EXTENSION)

Cecelia A. Winiecki (Asst Prof, Home Econ, and state 4-H and Youth Dev. Coord.) presented a keynote address, "Designing 4-H Programs With People," at the annual 4-H Conference for Extension Agents in Kentucky April 28.

#### FORESTRY

D.H. Van Lear (Prof) presented a paper, "Ecosystem Effects of Whole-Tree Harvesting," at the Tree Nutrition Workshop in Charleston.

Prof. Van Lear presented a paper, "Effects of Intensive Forestry on Site Productivity," at the International Union of Forest Research Organizations sub-group meeting in Atlanta, Ga.

A.P.C. Marsinko (Asst Prof) and S.K. Nodine (Instr) co-authored a paper, "Tree Planting Under the Soil Bank Program - An Economic Analysis," published as Forestry Bulletin 24.

R.E. Schoenike (Prof) has been selected to receive the 1981 Oberly Award for Bibliography in the Agricultural Sciences. The Oberly Award, sponsored by the Science and Technology Section of the Association of College and Research Libraries, a part of the American Libraries Assoc., is presented biennially to the author or compiler of the outstanding bibliography in agriculture or the related sciences. The 1981 award recognizes Schoenike's achievement in compiling Yellow-poplar (Liriodendron tulipifera L.): an annotated bibliography to and including 1974.

G.C. Haehnle (Grad Asst) presented a paper, "Phytogeographical and Compositional Characteristics of the Quercus oglethorpensis Duncan (Fagaceae) Population in South Carolina," co-authored by S.M. Jones (Res For) and B. Allen Dunn (Assoc Prof), at the annual meeting of the Association of Southeastern Biologists in Knoxville, Tenn.

Also at that same meeting, Jones presented a paper, "Hardwood Communities of the Savannah River Plant in Aiken, Barnwell, and Allendale Counties, South Carolina," co-authored by Prof. Van Lear.

The following papers were presented at the annual meeting of the South Carolina Academy of Sciences in Columbia:

-- "Potential of Habitat Type Classifica-

*Continued on page 6.*

*Continued from page 5.*

tion at the Savannah River Plant," Jones and Prof. Van Lear.

-- "Decay of Root and Stem Wood of Five Species of Southern Pines by *Heterobasidium annosum* in Axenic Culture," C.L. Lane (Prof) and W. Witcher (Prof, Pl Path).

-- "An Interactive, Microcomputer-based System for Mapping State, County, and Regional Data," R.C. Shaw (Grad Asst) and Prof. Marsinko.

## HISTORY

Laura L. Becker (Asst Prof) published a review of Peter Eisinger's The Politics of Displacement: Racial and Ethnic Transition in Three American Cities in The Annals of the American Academy of Political and Social Science, March 1981.

Leonard Greenspoon (Asst Prof) published an article, "The Origin of the Idea of Resurrection," in Traditions in Transformation: Turning Points in Biblical Faith (Eisenbrauns, 1981), pp. 247-321.

R.S. Lambert (Prof) presented a paper, "The Revolution," at a conference on writing South Carolina's history May 1 at Furman University.

## INDUSTRIAL MANAGEMENT

Michael J. Stahl (Assoc Prof) and Adrian M. Harrel (Univ of South Carolina) published an article, "Modeling Effort Decisions with Behavioral Decision Theory: Toward an Individual Differences Model of Expectancy Theory," in Organizational Behavior and Human Performance 27, No. 3 (June 1981), pp. 303-325.

## LANGUAGES

S.C. King (Asst Prof, Span) and John B. Romeiser (Asst Prof, Fr) will be grading for the College Board's Advanced Placement Program on the campuses of Trenton State College and Rider College June 10-17.

Jo Ann McNatt (Asst Prof, Fr) was awarded an NEH Summer Seminar grant for 1981 at Dartmouth. The seminar, "The French and American Novel: 1950-1980," is directed by Prof. Neal Oxenhandler.

Margit M. Sinka (Assoc Prof, Ger) published "'Der hofschste man': An Analysis of Gawein's Role in Hartman von Aue's Iwein," in Modern Language Notes 96 (Spring, 1981), pp. 471-487.

Prof. Sinka was awarded a 1981 National Endowment for the Humanities summer grant at Fordham University (theology department). The seminar topic is "The Journey in Medieval Christian Mysticism."

Russell Willingham (Instr, Fr) presented a paper, "Foreign Language Drama in Intermediate French Courses," April 10 at Dionysia '81, the foreign language drama workshop here.

## MATHEMATICAL SCIENCES

Joel V. Brawley (Prof) and Gary Mullen (Penn State) published a paper, "A Note on Equivalence Classes of Matrices Over a Finite Field," in the International Journal of Mathematics and Mathematical Sciences, Vol. 4 (1981), pp. 279-287.

Robert F. Ling (Prof) was the invited organizer and chairman of a special session, "On the User Interface of Computing Software," at the meeting of the International Congress on Applied Systems Research and Cybernetics in Acapulco, Mexico, Dec. 12-16. His paper and the session, both of the same title, were recently unanimously awarded the Congress Meritorious Award.

Herman Senter (Assoc Prof) and Dave Corn (Greenville Recreation Commission) published a paper, "Evaluating Data Processing Alternatives for Recreation Agencies," in Omnibus, Vol. X, No. 3 (Spring 1981).

Prof. Senter directed a session on "Recreation Use Estimation" at a training workshop for resource managers here, April 27 - May 7, sponsored by the U.S.



Army Corps of Engineers and the department of recreation and park administration.

D.R. Shier (Assoc Prof) presented a paper, "Properties of Label-Correcting Methods for Determining Shortest Path Trees," at the joint meeting of the Canadian Operations Research Society (CORS), The Institute of Management Sciences (TIMS) and Operations Research Society of America (ORSA) in Toronto, Canada, May 3-6.

#### MECHANICAL ENGINEERING

Richard S. Figliola (Asst Prof) and T.J. Mueller (Univ of Notre Dame) published a paper, "On the Hemolytic and Thrombogenic Potential of Occluder Prosthetic Heart Valves," in the Journal of Biomechanical Engineering 103, 2 (1981), pp. 83-90.

F.W. Paul (Prof) has received notification from the Aluminum Company of America that a Versatran Industrial Robot on loan to the department from the company will be given to the department. This robot is valued at \$10,000 and will become an integral part of the department's research in automated manufacturing and productivity. The research is conducted in the department's Automation Research Laboratory.

Tah-teh Yang (Prof) presented a technical paper, "Rotational Flow in a Curved-Wall Diffuser Designed by Using the Inverse Method of Solution of Potential Flow Theory," co-authored by Francois Ntone (Grad Asst), at the 12th Navy Symposium on Aeroballistics in Washington, D.C., May 13.

#### PLANT PATHOLOGY & PHYSIOLOGY

Stephen A. Lewis (Assoc Prof) and A.M. Golden (Assoc Prof) published a paper, "Description and SEM Observations of Dolichodorus marylandicus n. sp. with a Key to Species of Dolichodorus," in the Journal of Nematology 13 (1981), pp. 128-135.

Prof. Lewis and Prof. Golden published a paper, "Description of Trilineelus

clathrocutis n.g., n. sp. (Tylenchorhynchinae: Tylenchida Thorne, 1949) with a Key to Species and Observations on Tylenchorhynchus sensu stricto," in Journal of Nematology 13 (1980), pp. 135-141.

W.C. Nesmith (Former Grad Res Asst), E.I. Zehr (Prof) and W.M. Dowler (Former USDA Pl Path) published a paper, "Association of Macroposthonia xenoplax and Scutellonema brachyurum with the Peach Tree Short Life Syndrome," in Journal of Nematology 13 (1980), pp. 220-225.

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#### Biomedical Research Support Grants Awarded

As a result of announcements in the Feb. 10, 1981, and subsequent issues of the University Newsletter and a Feb. 5, 1981, memorandum and notice to all appropriate deans and department heads, the University Biomedical Research Support Grant Committee received seven applications (proposals) for support under the current University BRSG award (\$39,668).

After peer review for scientific merit and consideration of the committee goals and objectives, the following awards, totaling \$40,800, were made by the committee:

-- K. Dill (chemistry), "Specific Modifications of MN Blood Group Determinants," \$4,650;

-- D.L. Powers (interdisciplinary studies), "The Viability of a Perichondrial Graft in an Endosteal Location," \$5,300;

-- F.J. Stutzenberger (microbiology), "Activation of Alternate Complement Pathway by Thm. curvata," \$6,000;

-- L.G. Peppers (sociology), "Paternal Reaction to Perinatal Death," \$7,800;

-- D.D. Moore (psychology), "Loneliness: Correlates and Attributions Across the Lifespan," \$4,250;

-- C.S. Brown (biochemistry), "Mechanism  
*Continued on page 8.*



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of Serotonin Action on Bovine Lymphocytes," \$8,000;

-- J.R. Diehl (animal science), "Conductivity of Vaginal Mucous: Indicator of Ovulation," \$4,800.

#### ATCHLEY MAKES STATEMENT ON RECRUITING PROCEDURES

In response to questions raised in an article in the Knoxville (Tenn.) Sentinel last Thursday (June 25) about Clemson football recruiting procedures, University President Bill Atchley released the following statement to the press:

"We're aware of the article in the Knoxville Sentinel in which Clemson University is accused of improper recruiting procedures regarding the signing of athletes James Cofer and Terry Minor of Knoxville.

"Since this matter is currently under study by the NCAA, with whom we have cooperated fully, and since Clemson has had no report from the NCAA, we have felt that it is inappropriate for us to comment further on any specifics of this situation.

"However, since the article has appeared in the newspaper, we do feel that it would be appropriate to say that neither of the two athletes has qualified for admission to Clemson University. Therefore, ACC Commissioner Bob James has been notified of Clemson's decision to release both Cofer and Minor from the conference letter of intent which they signed with the university in December 1980."

|                                                                                                    |
|----------------------------------------------------------------------------------------------------|
| <p>As a result of the July 4th holiday, there will be no <u>Newsletter</u> next week (July 7).</p> |
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# THISWEEK AT CU

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July 6-12

- 7 Film: "Mc Q," starring John Wayne. Sponsored by University Union, Edgar's, 9 p.m. 50¢ admission charge.
- 7 Short Course: Hammock Making begins, sign up and details at information desk. Sponsored by University Union; classes will meet July 7, 9, 14, 16, 21 and 23.
- 10 Workshop: "Interactive Computing for High School Students." Sponsored by the department of electrical and computer engineering, Riggs Hall. Enrollment limited to interested high school students. Call 656-3308 for more information.
- 11 Short Course: Hang Gliding. Sponsored by University Union, sign up at the Information Desk. Cost is \$25, deadline for sign up is July 8. Class is from 1:30 - 6 p.m.
- 11 Shopping Trip to Haywood Mall, Greenville. Sponsored by University Union, sign up at the Information Desk. Will leave from Union at 9 a.m. and return to Clemson at 5 p.m. Cost for transportation is \$2.

# WEPR

FM 90, an educational radio station  
with studios in the Clemson House

## WEEKDAY SCHEDULE

| Time        | Monday                         | Tuesday                           | Wednesday               | Thursday              | Friday                      |
|-------------|--------------------------------|-----------------------------------|-------------------------|-----------------------|-----------------------------|
| 6-8         |                                |                                   | Morning Edition*        |                       |                             |
| 8-8:30      |                                |                                   | Radio Reader            |                       |                             |
| 8:30-12     |                                |                                   | Morning Pro Musica      |                       |                             |
| 12-12:30    |                                |                                   | Spider's Web            |                       |                             |
| 12:30-3     |                                |                                   | Matinee                 |                       |                             |
| 3-4         |                                |                                   | Options                 |                       |                             |
| 4-4:30      | My Word                        | Disability<br>A Global<br>Concern | Alive and<br>Kicking    | An Apple<br>A Day     | National<br>Town<br>Meeting |
| 4:30-5      |                                |                                   | Drive Time*             |                       |                             |
| 5-6:30      |                                |                                   | All Things Considered   |                       |                             |
| 6:30-7      | Options in Education           |                                   | Horizons                | BBC Science           | Radio<br>Smithsonian        |
| 7-7:30      |                                |                                   | The Mind's Eye**        |                       |                             |
| 7:30-8      | Hitchhiker's<br>Guide - Galaxy |                                   | Earlray Weekday Theatre |                       |                             |
| 8-9         | Milwaukee<br>Symphony          | International<br>Concert Hall     | Boston<br>Symphony      | St. Louis<br>Symphony | N.Y.<br>Philharmonic        |
| 9-10        |                                |                                   |                         |                       |                             |
| 10-11       | 1st<br>Hearing                 | BBC<br>Promenade                  | Vocal<br>Scene          | Major and<br>Minors*  | A Little<br>Night<br>Music* |
| 11-12:00    | Starlight<br>Concert           | Starlight<br>Concert              | Starlight<br>Concert    | Vocal<br>Scene        | The Record<br>Shelf         |
| 12:00-12:30 |                                |                                   |                         |                       |                             |

## WEEKEND SCHEDULE

| Time     | Saturday                       | Sunday                                  |
|----------|--------------------------------|-----------------------------------------|
| 6-6:30   | Radio Mit<br>Deutschland       |                                         |
| 6:30-7   | Enfoque<br>Nacional            |                                         |
| 7-7:30   | Conversations<br>With Alice    |                                         |
| 7:30-8   | Simple Gifts                   | Daybreak                                |
| 8-8:30   | S.C. Speaks                    |                                         |
| 8:30-9   | My Word                        |                                         |
| 9-10     | Mosaics                        |                                         |
| 10-11    |                                | St. Paul<br>Sunday<br>Morning           |
| 11-12    | Concert<br>Guitar              |                                         |
| 12-1     |                                | Music From<br>Oberlin                   |
| 1-2      | Brazilian<br>Hour              |                                         |
| 2-2:30   | I Hear<br>America*             | Performance*                            |
| 2:30-3   |                                | Plots and<br>Prologues*                 |
| 3-4      | Folk<br>Festival<br>USA        | NPR<br>Playhouse                        |
| 4-4:30   |                                | Latin Beat*                             |
| 4:30-5   |                                | Jazzspot*                               |
| 5-6      | All Things<br>Considered       |                                         |
| 6-6:30   | A Prairie<br>Home<br>Companion | Jazz<br>Revisited<br>Jazz in            |
| 6:30-7   |                                | Retrospect<br>Alec Wilder<br>& American |
| 7-8      |                                | Popular Song                            |
| 8-9      | Center-<br>stage<br>ETV        | Essence of<br>Jazz                      |
| 9-10     | Simulcast                      | Jazz<br>Alive                           |
| 10-11    | Stardust<br>Ballroom           |                                         |
| 11-12:30 |                                | Jazz Beat                               |

\*Produced by the Clemson University studio of WEPR

\*\*Funded by restricted gifts to the Clemson University Fund







JUL 15 1981

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# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



## ATCHLEY ACCEPTS COUNCIL'S PLAN FOR 1982-83 ACADEMIC CALENDAR

President Bill L. Atchley has accepted a proposed 1982-83 academic calendar recommended to him June 26 by the President's Council.

The schedule (appearing in full on page 2) sets registration for the 82-83 fall semester for Aug. 17-18, 1982, and allows for a two-day fall break in early November.

Also included is a reading day between the end of fall classes and the start of exams.

Atchley made only one change in the calendar as recommended by the Council.

He moved the 82-83 Honors and Awards Day from Saturday, April 9, 1983, to Sunday, April 10. This change was suggested by the academic deans.

The calendar was developed by a committee of faculty members, students and administrators and was one of two discussed at the Council's regular June meeting.

The alternative calendar, carrying Faculty Senate endorsement, was presented by Senate president Steve Melsheimer.

Under the Senate's version, fall 82-83 classes would not start until Aug. 23, 1982, with the rest of the calendar adjusted accordingly.

*Continued on page 3.*



**FRUITS OF FARMING FIREFIGHTERS**  
-- These plants growing next to the new fire station out on Perimeter Road are not a part of the University's agricultural research program, but they do represent an experiment of sorts. To find out more, turn to "FIREFIGHTERS FARM DURING SPARE TIME" on page 4.

## 1982-1983 Approved Academic Calendar

## Fall 1982

|                     |                  |
|---------------------|------------------|
| Orientation         | Aug. 16          |
| Registration        | Aug. 17-18       |
| Classes Begin       | Aug. 19          |
| Fall Break          | Nov. 1-2         |
| Thanksgiving        | Nov. 25-26       |
| Classes End         | Dec. 7           |
| Reading Day         | Dec. 8           |
| Examinations        | Dec. 9-11, 13-15 |
| December Graduation | Dec. 21          |

## Spring 1983

|                       |             |
|-----------------------|-------------|
| Orientation           | Jan. 6      |
| Registration          | Jan. 7-8    |
| Classes Begin         | Jan. 10     |
| Spring Break          | March 12-20 |
| Honors and Awards Day | April 10    |
| Classes End           | April 29    |
| Examinations          | May 2-7     |
| May Graduation        | May 13      |

## First Summer Session 1983

|                  |                 |
|------------------|-----------------|
| Registration     | May 23          |
| Classes Begin    | May 24          |
| Saturday Classes | May 28, June 11 |
| Classes End      | June 23         |
| Examinations     | June 24         |

## Second Summer Session 1983

|                   |         |
|-------------------|---------|
| Orientation       | June 27 |
| Registration      | June 28 |
| Classes Begin     | June 29 |
| Holiday           | July 4  |
| Saturday Classes  | July 9  |
| Classes End       | Aug. 2  |
| Examinations      | Aug. 3  |
| August Graduation | Aug. 6  |

*Continued from page 1.*

Melsheimer said the Senate favors not beginning fall classes before the fourth week of August each year because an earlier start inconveniences faculty and students involved in summer employment and projects.

(Though not a part of its proposal to the Council, the Senate has also gone on record against continuing to hold graduation ceremonies in December and August and currently is studying the concept of a 50-minute Monday-Wednesday-Friday, 75-minute Tuesday-Thursday class schedule.)

Vice Provost Jerry Reel, who chaired the committee which drafted the Council-backed calendar, said the committee's proposal applies only to 1982-83 and does not bind the University to any particular scheduling format beyond that year.

He said a number of issues currently under study -- including possible revisions to academic regulations and changes in class scheduling patterns -- may affect future calendars.

He said those matters need to be resolved before significant changes are made in the calendar system.

Student body president John Pettigrew and Student Senate president Reid Tribble agreed with Reel that more time is need to study issues affecting the calendar.

Atchley's acceptance of the calendar

recommended by the Council includes a request that exams for candidates for graduation be scheduled early in each exam period, particularly in the fall, to allow enough time for scoring before grades must be submitted.

In other business:

-- Atchley told the Council that "dollars will be short" here during the 1981-82 fiscal year. "I remain hard-nosed about quality," he said, adding that spending limitations may have to be imposed in some budget categories.

-- The Council expressed its appreciation to retired University personnel director John Gentry for his efforts to get the state Legislature to provide greater protection for the families of state employees who die in service before retirement.

Gentry's work was rewarded recently by passage of a bill amending the law governing the benefits deceased employees' families may receive.

(The Newsletter will report more fully on this legislation in a later issue.)

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#### DEPARTMENT HEAD CHOSEN FOR ANIMAL SCIENCE

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Lowell T. Frobish, a federal scientist and administrator, has been named

*Continued on page 4.*



**EFLAND HONORED** -- Tom Efland, who served as acting dean of industrial management and textile science until June 30, was honored by his colleagues last week with a thank-you party in appreciation of his year of service. (Ryan C. Amacher, the college's new dean, assumed his responsibilities here July 1 and was on hand for the party honoring Efland.) In the photo, Tom Zimmerer, an industrial management faculty member, presents an inscribed silver bowl to Efland on behalf of the IM&TS faculty and staff.



*Continued from page 3.*

head of the University's animal science department.

Frobish, 40, is a supervisory research animal scientist with the U.S. Department of Agriculture in Beltsville, Md. He has been with USDA since 1967, when he left Iowa State University after completing his M.S. and Ph.D. work in animal nutrition and biochemistry.

An Illinois native, Frobish attended Illinois State University and received his undergraduate degree from the University of Illinois in 1962.

With USDA he has been responsible for developing and implementing nutrition research programs for swine and turkeys. He received USDA's superior service award in 1980 for his work on the agency's sulfamethazine task force.

Frobish and his wife, Florence, have two children, Suanne, 13, and Melissa, 7.

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#### FIREFIGHTERS FARM DURING SPARE TIME

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Fire Chief Charles Owen wanted to get University firefighters from behind the TV during the spare time they have while pulling 24-hour shifts.

Gazing across the wide-open space next to the new fire station on Perimeter Road, he hit upon the idea of suggesting a gardening competition between shifts.

Shifts A and C liked the idea and set about plowing and planting and sowing and hoeing to see just who the best growers are.

(Shift B opted for a less earthy pastime: rebuilding the department's old pumper truck.)

After 5 p.m. each day -- once all regular duties, such as training exercises and station cleanup, are finished -- the competing gardeners are allowed to use their free time working in the fields.

"Gardening is much better (exercise) than watching TV," said Owen.

Plus all those potatoes, tomatoes,

ears of corn, pods of okra, cucumbers, butter beans, peas, peppers, watermelons and cantaloupes will find their way to firefighter dinner tables, he noted.

Owen and Fire Inspector Albert Timms are tending a third garden in the competition.

"Our crop is going to be bigger than the others," Owen said confidently, paying no heed to the guffaws from Shift C.

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#### TRAFFIC SURVEY POINTS OUT NEEDS, PROBLEMS IN GETTING AROUND CAMPUS

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"How's traffic this morning?" The results of a recent traffic survey suggests how most students, faculty and staff members would answer that question, says Mark Wright, assistant campus master planner.

The survey, part of an effort to develop a comprehensive master plan for the campus, was distributed at random in late April to 100 employees, 300 residents students and 200 commuting students.

"Basically, the survey was made to get some response from these people about traffic--to find out how they come and go, and what they do when they are here," says Wright. About half of the people returned the questionnaire, he says.

The results were compiled the last week of June and concur with those of an earlier traffic study conducted for the University by planning consultants from Lockwood Greene Inc. of Spartanburg.

"Our study confirms where people have trouble gaining access to areas of the University," Wright says.

He cites the intersection of Highway 93 and Palmetto Boulevard (near the president's home) as an example of one such "bottleneck" -- especially during morning and afternoon peak traffic hours.

Several surprises appeared in the results, says Wright. For instance, the survey indicates that, between 7:30 and 8 a.m. on weekdays, more commuters (31 percent) enter campus on Highway 93 from Central than from any other way. "This

is more than I had expected," he says.

The results also show satisfaction with the current parking scheme.

According to survey, most people believe that parking and registration fees should be kept to a minimum and are willing to park farther from campus to accomplish that.

Bicycling is not a very popular form of transportation at present, the survey shows. Only 10 percent of the respondents said they ride into campus most of the week.

Fear of auto traffic appears to play a large role in stopping would-be bicycle commuters. The survey suggests that more people would ride bikes if marked lanes and paths were provided, especially along Highway 93 toward Central.

Wright conducted the survey with the help of faculty members Jim Hite and Chris Sieverdes.

Hite, a professor of agricultural economics and rural sociology, helped draft the questions. Associate sociology professor Sieverdes converted the answers to computer-readable data.

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## GRASS TO REPLACE PREFABS NEAR JERVEY

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Where prefabs stood grass will grow.

That, says Melvin Barnette, vice president for business and finance, is the University's plan for what was once the F Street prefab neighborhood -- across from Jervey Athletic Center.

The prefabs were auctioned off June 10, and buyers were given a month to move the buildings.

That deadline having passed, Barnette says pavement in the area will be taken up, the ground "leveled as much as possible," and grass seeded.

In the process, the entrance to the Jervey parking lot will be moved to open onto Perimeter Road.

Also the road which leads to the rugby field and East Bank Recreation Area no longer will have two access points from Perimeter Road. Only the entrance nearer to Highway 93 will remain.

Barnette says the changes to the area will begin as soon as possible.

# ***THIS WEEK AT CU***

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July 20-26

- 22      Workshop: "Women in Management." Sponsored by Professional Development; call 656-2200 for more information.
- 23      Workshop: "Assertiveness Training for Women." Sponsored by Professional Development; call 656-2200 for more information.
- 24      Workshop: "Effective Expression for Women." Sponsored by Professional Development; call 656-2200 for more information.
- 25-29      American Agricultural Economics Association annual meetings. Sponsored by department of agricultural economics and rural sociology. Call 656-3223 for more information.
- 26-Aug. 1      Camp Lions Den, for the visually handicapped, and Camp Sertoma, for disadvantaged youth. Sponsored by department of recreation and park administration; call 656-3400 for more information.









JUL 23 1981

CLEMSON UNIVERSITY LIBRARY  
SOUTH CAROLINA ROOM

## WATER RESOURCES INSTITUTE ENDANGERED BY BUDGET-CUTTING

Federal funding for the University's Water Resources Research Institute, which has been helping solve water quality and quantity problems in South Carolina since 1964, will be eliminated in fiscal year 1981-82 if President Ronald Reagan's budget proposals are adopted by Congress.

Paul Zielinski, WRRRI director, says several vital projects, such as locating new sources of ground water in the Piedmont and removing radioactive elements from well water, may be left unfinished.

"Federal funds make up the bulk of the program budget," he says. "We're looking for alternative sources of revenue, but it doesn't look too promising."

The S.C. Water Resources Commission, which provides federally matched funds for WRRRI, won't be able to pick up the slack because of state budget cutting, Zielinski says.

"There're going to be a lot of disappointed people around here," he says, noting that WRRRI sponsors water-related projects by researchers in disciplines ranging from history to chemistry to engineering.

He says five matching-grant proposals submitted this year likely will not be funded. "Normally we have one to three funded," he says.

At least six current annual cooperative research projects will not have funds to continue.

"It took a long time to develop the current system for identifying and prioritizing the state's water problems and now we could lose that mechanism," he says.

"We also stand to lose our professional credibility with scientists who have put a lot of time into projects only to have them discontinued. And we won't be able to continue the dissemination of information on completed projects, which will be detrimental to future research."

Zielinski says some problems will continue to be studied because they're so critical, "but we certainly won't continue at the level we're at today."

He says there's still a slight possibility that some of the federal dollars earmarked for cutting might be restored, "but as time goes by, the worse things look. At the moment there's no relief in sight."

*Continued on page 2.*



*"EVERY TIME THE PHONE RINGS the thought 'Is this an emergency?' runs through my mind," says Donna McMahan, who explains why on page 2.*

*Continued from page 1.*

He says a lot depends on the reaction from individuals and agencies who use the information resulting from WRR1 research projects.

If economists, consulting engineers, and governmental agencies, such as the Department of Health and Environmental Control, who use WRR1-generated information in their work were to complain loudly to members of Congress, the funding picture might improve.

But, he says, even that would probably not have an immediate enough impact to affect the 81-82 year.

"Maybe in the future funding will be restored," he says. "Water problems cannot be ignored for long."

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#### DISPATCHER'S JOB CAN BE "ADVENTUROUS" AT TIMES

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To some she is the University police department, their only contact with campus law enforcement.

To the cop on the beat, she is the home-base contact, the source for instructions and information.

As police dispatcher and receptionist, Donna McMahan plays a dual role. She keeps up with University police officers -- their whereabouts and availability to respond to a call. And she attends to callers and visitors, answering their questions and trying to keep problems from becoming emergencies when possible.

"We get every type of call in the world," she says. She estimates that when school is in session she handles more than 100 calls a day during her 7 a.m. - 3 p.m. shift.

(Other departmental employees act as dispatcher at night.)

"Every time the phone rings the thought 'Is this an emergency?' runs through my mind," McMahan says.

Fortunately, she says, usually it's not. Instead the caller wants to know about a parking rule, or the time of day, or even a football score. Occasionally someone calls to vent hostilities to police in general.

But when the call is an emergency, she says, her job is to get all pertinent information about the situation.

When a caller sounds upset, McMahan does what she can to calm the person. "I try to understand what the person on the other end of the line is going through," she says.

She also keeps the person on the telephone as long as possible. "That calms them down and helps me to get all necessary information about the crime or accident," says McMahan.

Important information a caller should give when reporting an incident, she says, includes a license tag number (if applicable) and physical descriptions and directions of travel of person involved.

McMahan realizes that her response to a caller or visitor helps establish that person's opinion of the police department.

"My attitude toward a caller or visitor may shape that person's attitude toward the entire department," she says. "It's important for me to treat people as I want to be treated."

"I handle all calls in a serious manner," she says.

McMahan says her job of 10 months has been "adventurous" at times. She says the most serious and unusual call she has taken was a report of a plane crash on Highway 123.

McMahan started out with the police department four years ago working in parking enforcement on East Campus.

But her ties with the department are stronger than that. Her father, retired Sgt. Walter E. Harbin, was with the University police force for 17 years.

McMahan, her husband, Donnie, and their two children live in Seneca.

## INTERNAL AUDITING HELPS MANAGERS REACH THEIR GOALS AND OBJECTIVES

The word "audit" usually strikes fear in the hearts of taxpayers.

But at the University, it means useful suggestions on how a department may save time and money, says Mike Hughey, director of the office of internal auditing.

Making sure that departments follow University rules and state and federal laws on spending is part of the office's job.

But the main objective of the office, says Hughey, is to "assure that the assets of the University are safeguarded through accounting and internal controls."

"Internal auditing is a management tool," he says. "It tells the administration and departments how well existing controls and policies are working."

Even when a department is not being audited, he says, it still can come to the office (107 Fike) for help and advice.

"The office is a place where anyone can come for help in establishing new operating procedures or to change existing ones," says Hughey. "We'd be glad to help people look into specific areas any way we can."

Hughey, audit supervisor Robert Ricketts, staff auditors Judy Nabors, Larry Crawford and Bill Pollard, and staff assistant Jane Turbeville make up the staff.

Four years ago, the staff grew from only one full-time auditor to four. It grew to its present size two years ago.

Ricketts says this growth is part of a nationwide recognition of the value of the internal auditing profession. "People are seeing that it plays an important role in helping management attain its overall goals and objectives."

When a department is notified that it is to be audited, there is no cause for alarm, says Ricketts.

First the auditors will set up an "entrance conference" with the department

head so they can get an idea of the department's operations. Then comes the actual audit.

The auditor will discuss the findings with the department head and make recommendations in an informal "exit conference."

Finally the auditor drafts a written report of the findings. The audited department is usually asked to make a written reply.

At the start of each audit, says Ricketts, the auditors "go in with the attitude that we're going to help them any way we can. We like to look at problems as opportunities to improve."

Because of their position as an "outsider looking in," says Nabors, auditors can often bring a fresh perspective to bear on a problem.

Because of this advantage, the auditors at times "raise questions about a procedure that may never have been raised before," she says.

Cooperation is an essential part of the audit, she says. Since the auditors can't be specialists in any one area of

*Continued on page 4.*



*A CALCULATING STAFF -- Left to right, Judy Nabors, Jane Turbeville, Larry Crawford and Mike Hughey, members of the internal auditing staff, check some figures.*



*Continued from page 3.*

the University's operation, they must work closely with members of the department being audited to discover areas to be improved.

Ricketts says, "Everywhere we've been, we've had the utmost cooperation."

Departments audited by the office -- ranging from the Clemson House to academic departments to the motor pool -- may be audited annually, biannually or triannually, depending on their size and scope.

"When I was a student here, I didn't realize the University did so many different things," says Hughey. "I found it really amazing."

Ricketts says that working in the University provides a unique chance for any auditor to develop professionally, being exposed to many different operations.

Because of it's variety, Nabors says her job is "never dull. I always meet new people, and each department has a different way of doing business."

(In case you're wondering, the internal auditing office is audited by state auditors.)

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#### ARSONIST AT WORK ON CAMPUS, BUT FIRE DEPARTMENT PREVAILS

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There's an arsonist at work on campus.

But his repeated attempts to burn a vacant prefab have been foiled by the University fire department.

It took the arsonist, none other than Fire Chief Charles Owen, about half an hour to start the blaze on the afternoon of July 8.

When University firefighters arrived on the scene, two minutes after they received the call, the fire was raging, with flames leaping as much as 10 feet from the roof. The firefighters extinguished the inferno in about 10 minutes.

It was all a part of a series of drills at the prefab, says Owen. The fire department bought the building from the housing office for firefighting and rescue practice.

By the time the fire department is through with it, the house will have been burned once a week for three weeks, to give each shift of firefighters some practice.

"We all act as if there were a real fire," says Owen. None of the firefighters know when Owen will strike his next match.

Battling the blaze were volunteers Steve Lightsey (a graduate student in food science), Don Collins (a professor of architecture), Greg Newsome (a junior accounting major), and professional firefighter Lt. Tom Brown. Both Lightsey and Collins have received "Firefighter of the Year" awards in recent years.

Praising the team's work as a "marvelous job," Owen says, "I would put them up against any crew in the state."

The firefighters were able to extinguish the fire quickly, says Owen, because they "put it out at the source," fighting the fire from the inside, wearing airpacks and protective clothing.

Before setting fire to the house, Owen staged several smoke drills. During one of the drills, the firefighters had to rescue a dummy from the smoke-filled dwelling. They also timed how long a smoldering cigarette takes to ignite a sofa.

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



July 28, 1981  
Vol 20 No 36

## TRUSTEES HIKE STUDENT FEES; ELECT TOM MCTEER CHAIRMAN

The Board of Trustees July 17 voted to increase 1981-82 student fees to help offset shortfalls in state funding for the University.

By unanimous vote the Trustees adopted the administration's recommendation that fees for in-state students go up \$70 per semester to \$675. Fees for out-of-state students were set at \$1,394 per semester, an increase of \$150.

President Bill L. Atchley told the Board the state's 81-82 appropriations bill will leave Clemson with a \$3 million shortfall. He said the fee increase will generate \$1.7 million to help make up the shortage. (The appropriations bill has been passed by the General Assembly and is now being reviewed by Gov. Richard Riley.)

Atchley said the University has implemented a reduction in personnel ser-

vices required by the state and is imposing restraints in other budget categories, such as travel. He said he was reluctant to raise student fees for a third consecutive year, but he said the quality of University programs would suffer without the extra revenue.

### McTeer elected chairman

The Trustees elected Columbia realtor Thomas B. McTeer Jr. to a two-year term as chairman of the Board. McTeer, president of Edens and McTeer Inc., is a 1960 Clemson graduate and the developer of the Dutch Square mall and office complex in Columbia.

He succeeds Paul W. McAlister of Laurens, who has been chairman for the past six years. Board by-laws prevent a chairman from being elected to more than three consecutive two-year terms.

### Policies adopted

The Board adopted policies on

*Continued on page 2.*



*TAKEN INTO CUSTODY? -- No, fortunately Provost David Maxwell was able to convince Army ROTC cadets Robert P. Brock (left) of Jacksonville, Ala., and James E. Adams (right) of Williston that the carton in his hand really did have only milk in it.*

*"That's a fact, Jack," Maxwell is reported to have said.*

*The truth is Brock and Adams are two of 31 University cadets attending ROTC Advanced Camp at Fort Bragg, N.C. Maxwell visited the cadets June 25-28 and got a first-hand look at the six-week camp designed to help future Army officers become effective leaders.*

*Continued from page 1.*

endowed chairs and titled professorships, faculty grievance procedures, and faculty participation in the selection of academic administrators.

All three policies are the results of joint efforts by the Faculty Senate and the administration and were recommended to the Board by its Educational Policy Committee.

The policy on endowed chairs and titled professorships "will provide flexibility and protection for the University while simultaneously protecting the rights of the individual recipient," according to a committee statement.

"In particular the policy will permit the University to stipulate continued productivity as a condition for retention of the endowed chair or titled professorship," the statement reads.

The new policy on faculty grievance procedures sets up a system for handling complaints not covered under existing procedures pertaining to matters such as termination, illegal discrimination, and violations of academic freedom.

The policy on selection of academic administrators provides for elective, rather than appointive, majorities on search committees for deans and department heads and makes student representation on all search committees (except for those for University president) mandatory.

In other business the Board:

-- ratified the appointment of Mary Lohr as dean of the College of Nursing.

-- was told by Trustee Leslie Tindal of Pinewood of actions taken by the Plant Pest Regulatory Service to quarantine fruit and vegetables from California which might be infested with Mediterranean fruit flies.

-- voted to operate under last year's budget until the 1981-82 appropriations bill becomes law. Trustee James Waddell of Beaufort, a state senator and vice chairman of the Senate Finance Committee, reported on the state budget situation.

"This year is going to look easy when compared to next year," Waddell said, noting that declining state revenues and uncertain economic times will make developing the 82-83 appropriations bill difficult. Atchley and several Trustees expressed appreciation to Waddell for his work in the Senate on Clemson's behalf.

-- granted an easement to Duke Power Co. to install a second emergency warning siren. The location of the siren has not been determined.

-- adopted changes to seed certification and nursery stock certification standards to comply with federal regulations and to clarify certain points.

-- ratified mail-ballot action granting a right-of-way easement to the Pee Dee Electric Cooperative Inc. to construct an electric transmission line on the grounds of the new Pee Dee Experiment Station in Florence.

-- ratified mail-ballot action granting a right-of-entry to the Corps of Engineers to cross University land to perform rehabilitative work on two Hartwell diversion dams.

-- approved "Douthit Hills" as the name for the University housing area east of the Clemson House and north of Highway 93. The name honors Joe B. Douthit Jr., who served on the Board of Trustees from 1936 to 1956.

-- approved "Thornhill Village" as the name for the University housing area east of Patrick Nobel Calhoun Courts and south of Highway 93. The name honors T. Wilbur Thornhill of Charleston, a Trustee from 1947 to 1960.

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#### ATHLETIC DEPARTMENT PLANS PHYSICAL IMPROVEMENTS THIS YEAR

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Major league baseball fields across the nation lie idle. But there's plenty of activity on the University's diamond -- well actually, around it.

Construction began July 14 on permanent seating at the baseball field, says Bobby Robinson, assistant director



of athletics.

In addition to 1,800 seats, a press box, restrooms and concession stands, all permanent, are being built. Robinson says everything should be ready for the 1982 season.

Nine hundred permanent seats at the tennis courts are among other improvements planned by the athletic department. Construction will begin Aug. 1.

Robinson says permanent seating at the soccer field is still a year away, but steps have already been taken to improve the lighting there. The upgraded lighting will allow more night matches to be scheduled and will make night practice easier, he says.

Because of this improvement, "there will be more soccer played at night this year -- five or six games -- where there were only two last season," he says.

The athletic department also plans work for Littlejohn Coliseum. "We're making some lighting and acoustical improvements, which should help during events like concerts and graduation, as well as sporting events," says Robinson.

"We hope that providing better and more comfortable facilities," financed by revenues from gate receipts (ticket sales), "we can attract more spectators and more support for these sports," he says.

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## DEPARTMENTAL NOTES

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*Announcements of professional accomplishments of faculty and staff members appear in the fourth Newsletter of each month.*

## Agricultural Economics & Rural Sociology

B.L. Dillman (Prof) and Peter C. Luisa (Regional Economist, Corps of Engineers, Savannah District) published an article, "An Entropy Analysis of Areal Concentration for Manufacturing Plants," in The Review of Regional Studies 8(3): pp. 1-9.

E.D. Wynn (Assoc Prof) participated in the Southern Regional Extension Community Development Committee's annual meeting in Athens, Ga., June 15-18.

## Agricultural Engineering

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John A. Collier (Asst Prof) has obtained a grant of \$20,000 from the South Carolina Coastal Council to assist in the development of a new oyster harvesting vessel.

Darrell L. Roberts (Prof) was granted \$15,000 from the Governor's Office of Energy Resources for the development of a portable alcohol still and to conduct three demonstrations of alcohol production technology in South Carolina in August and September.

The following papers were presented June 21-24 in Orlando, Fla., at the 1981 annual meeting of the American Society of Agricultural Engineers:

-- "Design and Initial Testing of a Mechanical Oyster Harvester" by Prof. Collier, D. McLaughlin (Ag Sci Assoc) and A.G. Jordan (National Cotton Council).

-- "Microcomputer Programs for Agricultural Producers in South Carolina" by F.J. Wolak (Asst Prof) and W.A. Tinsley (Prof, Ag Econ & Rural Soc).

-- "Water and Energy Requirements for Subsurface and Center-Pivot Irrigation" by E.E. Strickland Jr. (USDA-SEA, Florence), J.T. Ligon (Prof), T.V. Wilson (Prof) and C.W. Doty (USDA-SEA, Florence).

-- "Preparing Slides for Television Spots" by R.A. Spray (Prof).

-- "Extension Education for Energy Management in Agriculture" by Prof. Roberts and C.L. Barth (Prof).

-- "Comparison of Two High-Temperature Solar Collectors" by J.O. Newman (Adj Prof, USDA-RHRU), J.D. Simmons (USDA-RHRU) and L.C. Godbey (USDA-RHRU).

-- "Light Distribution in Below-Grade Houses" by Simmons and Newman.

-- "Panelized Wood Foundations for Earth-Embanked Walls" by Newman, R.

*Continued on page 4.*



*Continued from page 3.*

Harrison and Godbey.

-- "Intelligent Control of Multiple Servos with a Single Board Computer" by W.R. Lambert (Grad Stu) and G.E. Miles (Assoc Prof).

-- "Interfacing a Microcomputer Data Acquisition and Reduction System to an Inground Solar Research House" by Godbey, Simmons, J. Dunlap (Res Asst) and W.H. Allen (Assoc Prof).

### Animal Science

George C. Skelley (Prof) attended the Reciprocal Meat Conference of the American Meat Science Association in Corvallis, Ore., June 21-24.

John R. Diehl (Assoc Prof) received a grant of \$1,250 per year for two years from Animark Inc. of Aurora, Colo.

The following papers were presented at the American Society of Animal Science at North Carolina State University:

-- "Changes in Conductivity of Vaginal Mucus During the Estrous Cycle in the Gilt" by Prof. Diehl, S.O. Mack (Grad Stu) and L.W. Grimes (Asst Prof, Exp Stat).

-- "Shortening of the Postpartum Interval with Subcutaneous Steriod Implants in Suckled and Non-Suckled Beef Heifers" by T. Gimenez (Assoc Prof), D.M. Henricks (Prof, Fd Sci) and D.C. Hamrick (Undergrad Stu).

Dale Handlin (Assoc Prof) was one of seven individuals representing industry and education who received the Honorary State Farmer Degree during the 53rd annual state FFA convention in Raleigh, N.C., June 17-19. This is the highest recognition given by the FFA Organization. Handlin was recognized for his leadership in providing inservice to VoAg teachers and for his key role in livestock judging.

### Biochemistry

Gary L. Powell (Prof), J.K. Zimmerman (Assoc Prof) and W.W. Fish (MUSC) presented a poster, "Reexamination of Micellar Properties of Palmitoyl-Coenzyme A," at the American Society of Biological Chemists meeting in St. Louis, Mo., June 1.

### Chemistry and Geology

R.A. Abramovitch (Prof and Hd) and Dorota A. Abramovitch (Former Grad Stu) presented an invited lecture at the Fifth Lakeland Heterocyclic Symposium in Grasmere, England, May 7-11. While in England Prof. Abramovitch presented invited lectures at Smith, Kline and French in Welwyn Garden City, at Pfizer in Sandwich, and at Glaxo Laboratories in Greenford.

Prof. Abramovitch, Dorota A. Abramovitch and Piotr Tomasik (Cooperating Polish Scientist) published a paper, "Mechanism of Direct Side-chain Acylamination and Aminoarylation of 2- and 4-Picoline-1-Oxides," in J. Chem. Soc. Chem. Comm. 1981, p. 561.

K. Dill (Asst Prof) has been awarded a South Carolina - American Heart Association Research Grant for his proposal, "Self Association and Mobility Studies of Glycophorin A."

John D. Petersen (Asst Prof) presented a seminar, "Transition Metal Photochemistry Theory and Applications of Excited State Processes," at the Solar Energy Research Institute, Golden, Colo., June 30.

A.R. Pinder (Calhoun Prof) May 26 visited the laboratories of Robert et Cie., Grasse, Alpes Maritimes, France, a leading French perfumery house, for mutual discussions of recent advances in terpene chemistry.

### Civil Engineering

Subhash C. Anand (Prof) chaired a session on behalf of the Committee on Inelastic Behavior of the Engineering

Mechanics Division of ASCE at the ASME/ASCE Joint Mechanics Conference at the University of Colorado in Boulder June 21-24. He and Richard F. Bertz (Former Grad Stu), bridge engineer with Henry Co. of Ohio, also presented a paper, "A Solution Scheme for Elastic-Plastic Bending of Plates." In addition Prof. Anand attended the Executive Committee meeting of the Engineering Mechanics Division of ASCE.

Prof. Anand June 23 organized and chaired a session, "Industrial Advisory Boards to Colleges of Engineering - Their Function and Purpose," at the ASEE annual conference at the University of Southern California in Los Angeles. He chaired the meeting of Committee No. 2 - Professional Practice and Relations with Technical Societies of the Civil Engineering Division and helped plan the division's program for the 1982 annual conference.

Also, Prof. Anand has received a research grant, "Seismic Response of Composite Masonry in New and Existing Structures," from the National Science Foundation. The total budget of the two-year continuing grant is \$169,954, of which \$77,601 is granted for the first year. Russell H. Brown (Prof) will act as the co-principal investigator.

Soronadi Nnaji (Asst Prof) presented a paper, "Stochastic Urban Stream Quality Standards," at the Second International Conference on Urban Storm Drainage at Urbana-Champaign, Ill., June 15-19. The paper has also been published in Volume 11, pp. 146-155, of the conference proceedings.

### Computer Center

C.J. Duckenfield (Dir) presented a paper, "Down From the Ivory Tower," which was published in Infosystems, May 1981.

### Computer Science

A.J. Turner (Assoc Prof and Hd) presented an invited tutorial, "Program Development Methodology," at the National Educational Computing Conference in Denton, Texas, June 17-19.

### Continuing Science Education

A.C. Connor (Lect Comp Sci) will chair a seminar, "Choosing a Small Computer," sponsored by the department of computer science at the Clemson House July 23.

### Cooper Library

Joseph F. Boykin (Dir) presented a paper on the OCLC Users Council at the OCLC Online Computer Library Center's first meeting of general members at the annual conference of the American Library Association in San Francisco, Calif., June 30.

### Dairy Science Extension

Earl Goodman (Field Vet) of Turberville was honored as "Veterinarian of the Year" for 1981 at the annual meeting of the South Carolina Association of Veterinarians May 28-30.

### Development

James L. Strom (Dir) has been appointed to a two-year term as a director of the College and University Systems Exchange, a national professional association dedicated to the advancement and use of information systems in higher education. CAUSE draws on the resources of member institutions and a professional staff to provide a mechanism for the sharing of computer-based administrative systems.

### English

Sterling Eisiminger (Assoc Prof), John Idol (Assoc Prof), and William Koon (Assoc Prof) served as advanced placement readers for the Educational Testing Service June 12-17 at Rider College.

Prof. Idol published "The Survival of Belly-Timber" in American Speech and a review of Arlin Turner's Nathaniel

*Continued on page 6.*

*Continued from page 5.*

Hawthorne: A Biography in The South Carolina Review, 13, no. 2 (1981), pp. 112-13.

#### Environmental Systems

Robert A. Fjeld (Assoc Prof), R.O. Gauntt (Texas A&M Univ) and A.R. McFarland (Texas A&M Univ) published a paper, "Characterization of Aerosol Mobility Distributions by Integral Mobility Analysis - The Method of Mobility Moments," in the Journal of Aerosol Science 12 (2) (1981), pp. 109-117.

T.M. Keinath (Prof and Hd) presented a technical paper, "Solids Inventory Control in the Activated Sludge Process," in Munich, Germany, at an International Conference on Control and Automation in Wastewater Treatment sponsored by the International Association on Water Pollution Research June 20-25. Prof. Keinath also served as a member of the organizing committee and chaired a technical session.

Paul Zielinski (Prof) presented a paper, "Toxic Chemicals in Water - An Appraisal of Regulatory Programs in the Southeast," coauthored by David H. Howells (Prof Emer, NC State Univ) at the ASCE National Conference on Environmental Engineering in Atlanta, Ga., July 9. Prof. Zielinski also presented a talk, "Water Research Needs for South Carolina," at the 14th Annual Governor's Conference on Water Resources in Columbia May 22.

#### 4-H (Extension)

Stephen R. Mullen (Asst Prot, Ag Educ & State 4-H & Youth Dev Coord) presented a two-day workshop, "Communication: Key to Program Effectiveness," at the annual conference of Oklahoma 4-H agents June 10-11.

#### History

Joseph L. Arbena (Prof) has published a review of Dominio y Sociedad en el Panama Colombiano, 1821-1903, by

Alfredo Figueroa Navarro, in the Hispanic American Historical Review (May 1981).

Leonard Greenspoon (Asst Prof) published a review of M.C. Davis' Hebrew Bible Manuscripts in the Cambridge Genizah Collections, Vol. 1, in the Association for Jewish Studies Newsletter, June 1981.

#### Home Economics

Emily S. Wiggins (Asst Prof) and Joyce H. Jenkins (Assoc Prof) have published a paper, "Thinking Globally, Acting Locally," in Journal of Extension 19 (May/June 1981) pp. 53-57.

#### Industrial Education

J. Page Crouch (Prof and Proj Dir, PICA Graphic Comm Educ Prog) was the featured speaker at a recent "Career Night" at the Asheville (N.C.) High School during which he described the challenges and opportunities of the printing industry to the more than 150 conference participants including parents, teachers and students from area high schools, community colleges and universities.

#### Industrial Management

J. Michael McDonald (Assoc Prof) published an article, "An Absenteeism Control Program," coauthored by Ann V. Shaver (Assoc Admin and Dir, Nursing Service, Stephens Co Hospital, Toccoa, Ga.), in The Journal of Nursing Administration, Vol. XI, No. 5 (May, 1981).

#### Languages

Edwin P. Arnold (Asst Prof, Ger) participated in a national Business German Seminar jointly sponsored by the Goethe Institute-Atlanta and the Consulate-General of the Federal Republic of Germany at Unicoi State Park, Ga., May 31 - June 5.



## Mathematical Sciences

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At the 1981 Society of Industrial and Applied Mathematics national meeting at Rensselaer Polytechnic Institute in Troy, N.Y., June 8-10, the following papers were given:

-- "An Extended Conjugate Gradient Algorithm Based Upon a Least Square Fit of the Objective Function" by W. Robert Boland (Prof).

-- "Nonlinear Parameter Estimation for One-Dimensional Diffusion Models;" by James R. Brannan (Asst Prof).

Also at that conference T.G. Proctor (Prof) chaired a meeting of the SIAM Education Committee. This committee's current projects include creating material for college and university students which describes current needs for applied mathematicians in industry, government and academic institutions and providing an effective liason between SIAM and its university chapters (students).

Robert E. Haymond (Prof) and J.P. Jarvis (Assoc Prof) presented a joint paper, "Computing on Discrete Structures Via Generalized Do-Loops," at the Conference on the Applications of Discrete Mathematics at Rensselaer Polytechnic Institute in Troy, N.Y., June 11-12.

Prof. Jarvis and R.D. Ringeisen (Assoc Prof and Assoc Hd) were invited participants at a National Science Foundation sponsored lecture series, "Graph Algorithms," given by R.E. Tarjan of Bell Laboratories at Worcester (Mass.) Polytechnic Institute June 15-19.

James A. Reneke (Assoc Prof) has been selected as a participant in the NAVY-ASEE Summer Faculty Research Program and is doing research this summer at the Navy's Panama City, Fla., installation.

## Mechanical Engineering

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Tah-teh Yang (Prof) gave a seminar, "Design Procedure of Thrust Augmenting Ejectors with Short Curved-Wall Diffuser," at Sibley School of Mechanical Engineering at Cornell University June 11. Prof. Yang has also received an invitation from the Ejector Workshop for Aerospace Applications to make a presentation of the same topic Aug. 3. The workshop is sponsored jointly by Flight Dynamics and the Aeropropulsion Lab of AFWAL and the Air Force Office of Scientific Research.

## Physics and Astronomy

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B. Bronk (Prof, Phys and Micro) published a chapter, "Limitations on Determinism at the Cellular Level in Biology due to Variability at the Molecular Level," in Applied Stochastic Processes, edited by G. Adomian (Academic Press).

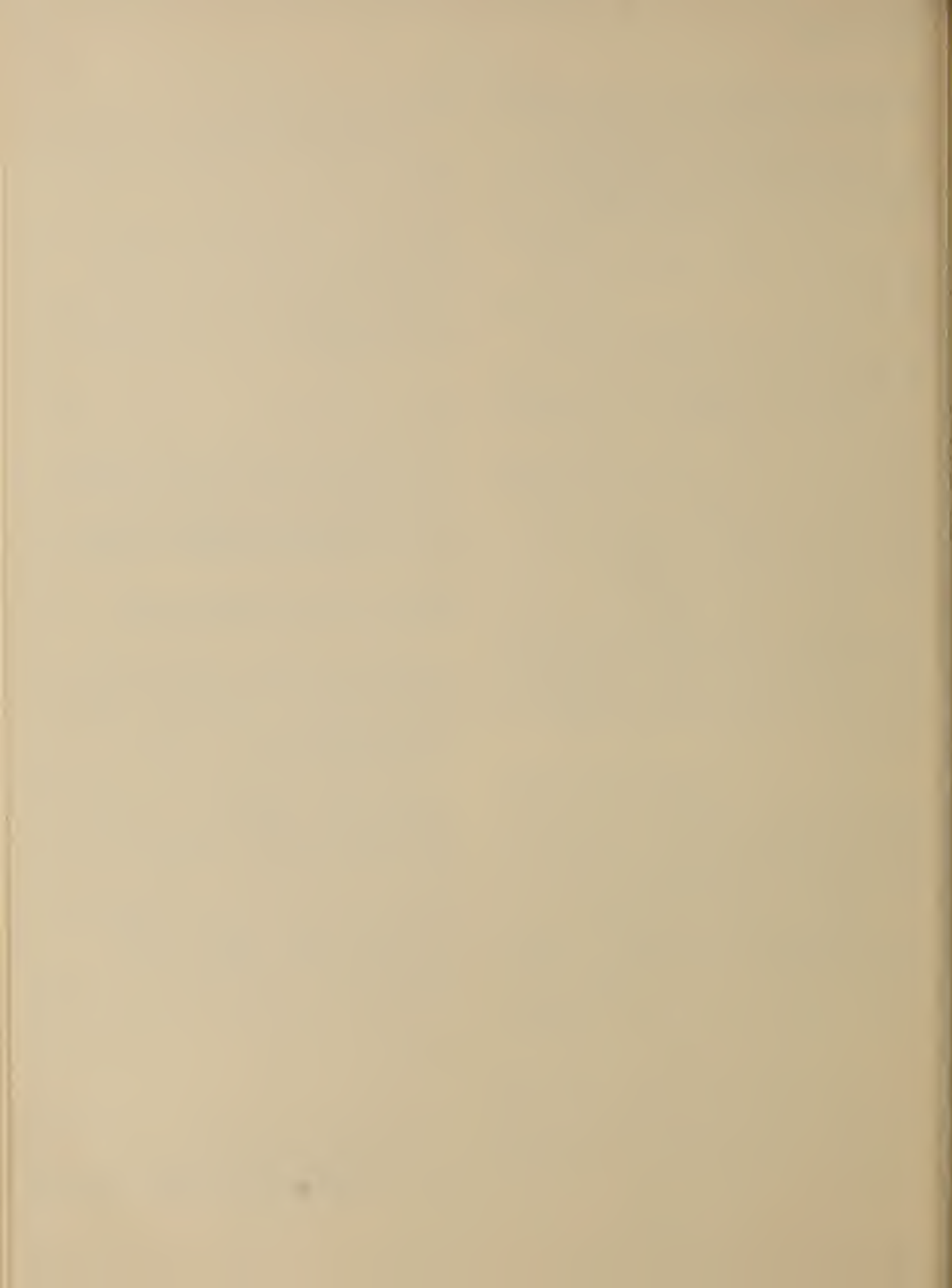
## Recreation and Park Administration

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G. Wesley Burnett (Asst Prof) has coauthored with David G. Couklin (Mont Dept of Fish, Wildlife and Parks) "Preserving a Place for the Pleasure Horse" in Montana Outdoors, Vol. 12, No. 4 (July - August, 1981), pp. 28-30.

Paul Richard Saunders (Asst Prof) presented a paper, "Recovery of a Southern Appalachian Spruce-Fir Burn," jointly authored with George S. Ramseur (Univ of the South) and Garrett A. Smathers (National Park Service), at the seventh annual meeting on Scientific Research in the National Parks, Southeast Region, June 25-26 in Great Smoky Mountains National Park, Gatlinburg, Tenn.





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CLEMSON UNIVERSITY LIBRARY  
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# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



## ATCHLEY RESPONDS TO VETOES ANNOUNCED BY GOV. RILEY

President Bill Atchley last Wednesday released the following statement to the press in response to Gov. Richard Riley's veto of \$1.2 million earmarked for Clemson in the 1981-82 state budget:

"Naturally, we are very disappointed to receive still another big cutback on top of the major cuts we had to sustain earlier this year.

"The members of the General Assembly collectively represent the will of an awful lot of people in South Carolina. They worked long, hard hours to come up with a bill they could put their stamp of approval on.

"We made our plea to the legislature, justified every dollar we asked for, showed that Clemson is a good manager of its funds, and the General Assembly evidently agreed with our request.

"I realize these are tough financial times for everybody, but I can only say again that higher education is one of the most important investments that can be made for the future of this state. We can't maintain a quality economy and quality of life in South Carolina without maintaining quality in higher education.

"This further cut in our basic support will only erode the resources that are necessary to maintain quality in higher education and at Clemson University."

The Riley veto most costly to the University is the one striking the equivalent adjustment proviso, which contains \$900,000 for Clemson.

Last spring, state colleges and universities submitted fall enrollment estimates to serve as a basis for funding,

with the understanding that if actual enrollments differed from the estimates state funding would be adjusted accordingly.

There'll be between 250 and 300 more students here in the fall than the University estimated. Through the equivalent adjustment proviso, Clemson's appropriation was increased to reflect these additional students.

The rest of Riley's cut for Clemson is in general operating areas.

University officials say it's too early for them to know for sure how Clemson would accommodate the loss of funds proposed by Riley.

They're hoping the vetoes will not be sustained by the General Assembly. If either the House or the Senate overrides the governor with a two-thirds vote, the vetoes will not go into effect.

The House is scheduled to consider Riley's actions this week.

## FLOWER DAY SET FOR SATURDAY

A three-acre trial garden featuring more than 300 flower varieties will be the highlight of the University's third annual Flower Day this Saturday, Aug. 8, at the horticultural gardens.

More than 2,000 visitors are expected to tour the 70-acre research and display facility off Highway 76 on Perimeter Road.

Flower Day will be co-sponsored by the horticulture department and the Garden Club of South Carolina.

*Continued on page 2.*

*Continued from page 1.*

"Most of the annuals will be in bloom, and that's our main attraction," says Flower Day coordinator Landon Miller, an associate professor of horticulture. "But there will be a lot more to see, including many items that weren't here last year."

One new exhibit will feature 17 varieties of lawn grasses, and Miller says visitors will be welcome to enjoy it barefoot.

"A lot of parks have signs telling people to keep off the grass," he says. "Our exhibits were designed so you have to walk on the grass because it's planted between the flower displays. You can only get from one to the other by walking on the experimental turfs."

He says getting a look at -- as well as a feel for -- the experimental grasses might help visitors who're about to make lawn decisions for their homes.

Guided tours will spotlight the garden's collection of camellias, azaleas, rhododendrons, Japanese and American holly and a natural bog garden. Miller says the tours will give people a chance to visit the horticulture research center.

Special programs on Flower Day will include fresh flower arranging, preserving and using plant materials, hortitherapy and a mini-garden and dwarf vegetable display.

Prizes will be awarded for the best live specimens and best fresh flower arrangements displayed at a "This is Clemson" flower show. Deadline for entering plants for competition is Aug. 7, says Miller, and contest rules are available from the horticulture department or any county Extension office.

Brief lectures on basic landscape design, home lawn care, house plant and shrub care and azaleas will be featured during Flower Day.

The garden complex also contains a pioneer garden with plants and vegetables grown by early South Carolina settlers, a garden for the blind with descriptive signs in braille, and a garden of med-

itation.

"Flower Day is meant to be educational as well as recreational," Miller says. "I don't think anyone would leave without learning something of value."

Admission is free, and registration begins at 8 a.m.

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BY DAY, A CANTEEN CASHIER;  
BY NIGHT, A GOSPEL POET

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By day she doles out smiles with every "chicken one-thirty" she puts on the counter.

But at night she sings a different tune -- a decidedly country one.

For 13 years Ruby Russell has worked as a cashier at the canteen in Johnstone Hall. But every afternoon she leaves the sizzle of the burgers behind to pursue another vocation: preparing a little food for thought.

Ruby writes gospel songs -- to be precise, gospel poems -- one of which has already been recorded by a Nashville music company.

"I always had an ear for music, and growing up in Westminster we lived on gospel music," she says. "So my songs are just a part of me, I guess."

Ruby says she wrote her first song, "God Has a Plan," five years ago in memory of her father, who died in 1961. "I played that record for Momma and she said it was the prettiest song she had ever heard," she says.

That song was the start of a hobby she now actively enjoys. A second of her gospel tunes is now being produced in Nashville, and Ruby is still writing them.

"Depending on how busy I am and whether the mood strikes me, I can write a song in just a few hours," she says.

And where, after a day's work in one of Clemson's busiest food services establishments, does she do her best writing? You guessed it: the kitchen table.

*Continued on page 3.*



*Ruby Russell*

*Continued from page 2.*

"I know my neighbors probably wonder what the light's doing on in my kitchen late at night," she says. "Maybe someday I'll tell them."

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#### MEDFLY QUARRANTINE THRUSTS ENTOMOLOGISTS INTO SPOTLIGHT

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Two University entomologists have become overnight media celebrities.

Louis Senn, director of regulatory and public service programs, and Jack Jackson, head of the plant pest regulatory service, are largely responsible for the state's recent quarantine on California fruits and vegetables because of that state's medfly problem.

As a result, they've been inundated with phone calls -- from 75 to 80 per day -- during the last half of July. "All the wire services and, I believe, every radio station in South Carolina have called to ask questions about the decision," says Senn.

Also, reporters from newspapers and agricultural magazines across the country have called. In addition to talking on radio programs from coast to coast via telephone, Senn has taped a special

program to appear on South Carolina educational television. "We've had a lot of exposure," he says.

Despite the hectic pace, Senn and Jackson get back in touch with all the callers who can't get through the first time. In the midst of all this, of course, they are supervising the quarantine program. "Our efforts have complimented one another to get the job done," says Senn.

When not in the public eye, Jackson supervises the usual operations of the plant pest regulatory service, which implements state laws, rules and regulations designed to keep insect pests and plant diseases from spreading in the state.

The service is working closely with state officials to battle the medfly. The state agriculture department is providing leads on where California produce is being shipped into South Carolina.

Several field entomologists, under Jackson's supervision, are inspecting California produce trucks coming into the state. The inspectors also are checking warehouses of supermarket chains and medfly traps at farmers markets in Greenville and Columbia.

"We stay really busy normally," says Jackson, "inspecting nurseries for plant pests and quarantine insects. It's important that we keep in-state produce -- as well as out-of-state -- as free from dangerous pests as possible."

The service is one of several in the department of regulatory and public service programs directed by Senn.

"The medfly isn't the only problem we're working on right now," he says. The fire ant and the gypsy moth continue to pose threats to the state's agricultural health, and the service is continuing to monitor them.

But those problems haven't attracted much media attention. "Perhaps they're not as dramatic as the fruitfly problem, in which (California's) Gov. Jerry Brown and the federal government got involved," Senn says.

*Continued on page 4.*



*Continued from page 3.*

The department also see to it that all pesticides and fertilizers sold in the state contain what their packages say and that they are applied properly, safely and in accordance with state law. Certifying seed is another activity of the department.

Though the number of calls from reporters has increased lately, Senn says, hearing the telephone ring is not all that unusual. Farmers, homeowners and nurserymen often call with questions about plant problems they're having.

And through the department's work with pesticides, "we have contacts from presidents of insecticide companies to the person spraying out in the field," says Senn.



*AG ECON SPEAKERS -- Dale Hathaway (left) and Kenneth Boulding were among the featured speakers during the 1981 annual meeting of the American Agricultural Economics Association held here July 26-29.*

*Hathaway is an internationally known agricultural economics consultant who served as assistant secretary of agriculture during the Carter Administration.*

*Boulding is a widely respected author and columnist for Technology Review magazine. During the Vietnam era, he helped create a think tank-type group that sought to use social science concepts to deal with conflict and war. He also coined the term "spaceship earth."*

#### EMPLOYEES REMINDED WHERE TO PARK DURING EARLY DAYS OF FALL TERM

With fall registration only two weeks away, the University Traffic Office has issued a reminder regarding parking procedures for the first days of the semester.

Bill Pace, assistant dean of student life, says the parking plan is designed to alleviate traffic congestion and to allow maximum convenience for students moving into residence halls.

On Sunday, Monday and Tuesday, Aug. 16-18, the east end of the Physical Plant lot, the north end of the Sirrine lot, and all of the spaces on South Palmetto Boulevard from Highway 93 to the Alumni Park will be reserved for returning students.

Says Pace, faculty and staff members should avoid parking in those areas by using resident student lots on Perimeter Road on East Campus, below Cemetery Hill south of Earle Hall, and west of the football stadium. Vans will shuttle from these lots every 15 minutes from 7 a.m. to 5 p.m. Aug. 16-18.

No employee spaces will be reserved for students Wednesday and Thursday, Aug. 19 and 20, says Pace, because the availability of faculty and staff parking is crucial during registration. Also, overflow parking will be available for faculty, staff and visitors from 7 a.m. to 5 p.m. those days.

Parking procedures will return to normal Friday, Aug. 21, says Pace.

If you need more information, call Pace (ext. 2270).

#### WORK-STUDY FORMS NEEDED NOW SAYS FINANCIAL AID OFFICER

If your department plans to employ students on the College Work-Study Program in 1981-82 and hasn't submitted new position questionnaires yet, the time has come to do so, says Frank Mandicott, assistant director of financial aid.

"Those who don't do so by Friday, Aug. 7, risk getting in under the wire," he says. For more information call 2280.

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# THIS WEEK AT CU

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August 10-16

- 14 Seminar: "National Agricultural Pesticide Impact Assessment Program," presented by Dr. Nancy N. Ragsdale, USDA - Science and Education Administration. She will discuss the coordinated USDA-State program for responding to proposed EPA pesticide actions. Sponsored by the entomology, fisheries and wildlife department; room F-149 Plant and Animal Science Building, 10 a.m.
- 16 Residence halls open at 10:00 a.m.
- 16 "Student Services/Alpha Phi Omega Shuttle." Shuttle runs on Sunday from 7:00 p.m. - 12:00 midnight and Monday - Thursday from 9:00 p.m. - 12:00 midnight from the resident parking lots to the residence halls area on east and west campus. Sponsored by Student Government and Alpha Phi Omega. Available for all students, no charge.



August 11, 1981  
Vol 20 No 38

# NEWSLETTER

INFORMATION FOR THE  
FACULTY AND STAFF  
OF CLEMSON UNIVERSITY



CLEMSON UNIVERSITY LIBRARY  
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PRESIDENT

August 11, 1981

AUG 7 1981

## MEMBERS OF THE CLEMSON UNIVERSITY FACULTY AND STAFF:

In order to greet each of you personally, we are having two nights in which to welcome new faculty and staff into the Clemson family. Those of you in the areas of Agricultural Sciences, Architecture, Development, Forest and Recreation Resources, Industrial Management and Textile Science, Nursing, Provost's Office, Sciences, Vice Provost's Office, and University Research are invited to our home on Thursday evening, September 24, from 7:30 - 10:00 p.m.

We are inviting faculty and staff in the areas of Alumni Relations and Resources Development, Business and Finance, Education, Engineering, Graduate School, Liberal Arts, Library, President's Office, Student Affairs, and University Relations to join us in welcoming their new faculty and staff at our home on Friday evening, September 25, from 7:30 - 10:00 p.m.

We look forward to greeting you.

Bill and Pat Atchley

In the event of rain  
The Clemson House



|                 |                                                                                                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| August 17       | Orientation for new faculty and staff,<br>7:45 a.m., Lee Hall                                                                                                                          |
| August 18       | General Faculty and Staff Meeting,<br>10:30 a.m., Littlejohn Coliseum                                                                                                                  |
| September 24-25 | President's Reception for Faculty and<br>Staff - 7:30 - 10:00 p.m.; President's<br>Home. The President's letter on the<br>front of the Newsletter indicates when<br>you are to attend. |

## NEW FACULTY AND STAFF, 1981-82

The following members of the faculty and staff joined the University between August 15, 1980, and August 15, 1981.

College of Agricultural Sciences

Berry, Steven S., Visiting Instructor, Agricultural Engineering Department; B.S., N. C. State University; 107 Bell Drive, Seneca 29678

Blalock, H. Gaffney, Associate Director, Livestock-Poultry Health Division; B.S., D.V.M., M.S., Ph.D., University of Georgia; Office Address: Box 218, Elgin 29045; Home Address: 8012 N. Broad Street, Camden 29020

Britt, Margie A., Chemist I, Agricultural Chemical Services; B.S., Shorter College; 131-J Freedom Drive

Buschermohle, Michael J., Visiting Instructor, Agricultural Engineering Department; B.S., University of Kentucky; 410 Shorecrest Drive

Cain, David W., Assistant Professor, Horticulture Department; B.S., University of Maine, Orono; M.S., Ph.D., Michigan State University; 9-E Daniel Drive

Caldwell, Judith D., Assistant Professor, Horticulture Department; B.S., M.S., Virginia Polytechnic Institute and State University; Ph.D., University of Arkansas; 405-C Old Central Road

Conrad, Norman G., Agricultural Science Associate III, Agricultural Chemical Services; B.A., B.S., Widener College; M.S., West Virginia University; 29-A Martin Street

Delwiche, Michael J., Assistant Professor, Agricultural Engineering Department; B.S., M.S., Ph.D., Cornell University; Apt. 20-B Hunter Street

Derning, Brett T., Agricultural Science Associate III, Agricultural Chemical Services; B.S., University of Georgia; M.S., Washington State University; Seminole Point, Route 1, Fairplay 29643

Donnelly, L. Scott, Assistant Professor, Food Science Department; B.S., Olaf College; M.S., Iowa State University; Ph.D., University of Minnesota; Route 2, Seneca 29678

Galloway, T. Lee, Pesticide Regulatory Specialist, Plant Pest Regulatory Service; B.S., Clemson University; Office Address: Pee Dee Experiment Station, Box 271, Florence 29503; Home Address: 2235 Clareview Drive, Pine Forest, Florence

Granger, C.A. Peter, Project Leader, Marine Advisory Services, Cooperative Extension Service; B.S., M.B.A., University of Washington; Office Address: 221 Fort Johnson Road, Charleston 29412

Hodges, Steven C., Assistant Professor, Agronomy and Soils Department; B.S., M.S., University of Florida; Ph.D., Virginia Polytechnic Institute and State University; 600 Hillcrest Drive

Israeli, Israel, Visiting Instructor, Agricultural Engineering Department; B.S., M.S., Technion, Israeli Institute of Technology; 25-A Barre Street

Jaffee, Bruce A., Visiting Assistant Professor, Plant Pathology and Physiology Department; B.S., California Polytechnic State University; M.S., Ph.D., Cornell University; 206 South Depot, Seneca 29678

King, Donnie R., Agricultural Science Associate III, Extension 4-H Department; A.A., Anderson College; B.S., Clemson University; Route 2, Box 96, Pelzer 29669

Kunkel, Mary E., Assistant Professor, Food Science Department; B.S., University of Central Arkansas; M.S., Ph.D., University of Tennessee; 109 Shadowick Way, Seneca 29678

## NEW FACULTY AND STAFF (Cont.)

College of Agricultural Sciences (Continued)

Lambert, W. Roy, Visiting Instructor, Agricultural Engineering; B.S., Clemson University; 208-B Kelly Road

Margolin, Amikam, Visiting Instructor, Agricultural Engineering Department; B.S., Technion, Israeli Institute of Technology; 43 Daniel Drive

Mitchell, Charlie C., Jr., Laboratory Director/Lecturer, Agricultural Chemical Services; B.S., Birmingham Southern College; M.S., Auburn University; Ph.D., University of Florida; Route 1, Box 30, Pendleton 29670

Payne, Frederick A., Assistant Professor, Agricultural Engineering Department; B.S., M.S., Ph.D., University of Kentucky; 410 Shorecrest Drive

Reynolds, William R., Visiting Instructor, Agricultural Engineering Department; B.S., Clemson University; 34-F Daniel Drive

Scott, Simon, Adjunct Associate Professor, Plant Pathology and Physiology Department; B.S., Hatfield Polytechnic (England); Ph.D., University College of Wales; 244 Riggs Drive

Wright, James H., Pesticide Regulatory Specialist, Plant Pest Regulatory Service; B.S., Clemson University; Office Address: P.O. Box 21792, Columbia 29221; Home Address: 1814 Kennedy Drive, Camden, 29020

College of Architecture

Craig, Lynn, Associate Professor, Department of Architectural Studies; B. Arch., Clemson University; MCRP, Washington University; R.I.B.A.

Cross, Sydney A., Assistant Professor, Department of History and Visual Studies; BFA, Northern Arizona University; MFA, Arizona State University

Walker, Gerald L., Visiting Lecturer, Department of History and Visual Studies; B. Arch., Clemson University; MCP, University of Pennsylvania

College of Education

Cooler, Ernest W., III, Captain, U.S. Army, Assistant Professor of Military Science; B.S., Clemson University; Route 1, Box 398-A, Pickens 29671

Jordan, Lewis E., Colonel, U.S.A.F., Head of Department and Professor of Aerospace Studies; B.S., Clemson University; M.B.A., Florida State University; M.S., Boston University; 102 Lakeside Court

Powell, Robert B., Lt. Colonel, U.S. Army, Professor of Military Science and Head of Department; B.A., Virginia Military Institute; M.S., West Chester State College; 1002 Berkley Drive

Schmittou, Charles D., Assistant Professor of Industrial Education; B.S., M.A., Austin Peay State University; Ed.S., Tennessee State University; 42 Daniel Drive

Sutherland, Richard H., Captain, U.S.A.F., Assistant Professor of Aerospace Studies; B.S., Clemson University; M.S., Webster College; 414 Rockingham Road, Seneca 29678

College of Engineering

Bell, G. Frank, Visiting Instructor of Electrical and Computer Engineering; B.S., M.E., Clemson University

## NEW FACULTY AND STAFF (Cont.)

College of Engineering (Continued)

Bennett, A. Wayne, Professor and Head of Electrical and Computer Engineering; B.S., M.S., Virginia Polytechnic Institute and State University; Ph.D., University of Florida

Bridgwood, Michael A., Visiting Assistant Professor of Electrical and Computer Engineering; B.S., University of Leeds, England; M.S., Ph.D., Council for National Academic Awards, Portsmouth Polytechnic, England

Drew, Leland O., Visiting Professor of Engineering Technology; B.S., Clemson University; M.S., Iowa State University; Ph.D., Michigan State University

Fletcher, George R., Jr., Visiting Associate Professor of Engineering Technology; B.S., North Georgia College; M.S., Ph.D., Clemson University

Grady, C.P. Leslie, Jr., Professor of Environmental Systems Engineering; B.S., M.S., Rice University; Ph.D., Oklahoma State University

Hill, Eric v. I., Assistant Professor of Mechanical Engineering; B.S., Ph.D., University of Oklahoma

Jennett, J. Charles, Dean, College of Engineering and Professor of Environmental Systems Engineering; B.S., M.S., Southern Methodist University; Ph.D., University of New Mexico

Park, William J., Jr., Visiting Instructor of Electrical and Computer Engineering; B.S., Clemson University

Patterson, Arthur G., Research Associate, Department of Electrical and Computer Engineering-Logistics Studies; B.S., Muskingum College

Ponder, Chris A., Research Associate; Department of Electrical and Computer Engineering-Logistics Studies; B.S., East Tennessee State University

Prather, John L., Professor of Electrical and Computer Engineering; A.B., Ph.D., Johns Hopkins University

Przirembel, Christian E.G., Professor and Head of Mechanical Engineering Department; B.S., M.S., Ph.D., Rutgers University

Ragland, John H., Research Associate, Department of Electrical and Computer Engineering-Logistics Studies; B.S., Clemson University

Schuessler, Richard B., Adjunct Associate Professor of Bioengineering; B.S., M.S., University of Missouri at Rolla; Ph.D., Clemson University

Sheppard, E. Lamar, Associate Professor of Engineering Technology; B.S., Clemson University; M.S., North Carolina State University

Talbot, Robert W., Research Associate, Department of Environmental Systems Engineering; B.S., Florida Institute of Technology; M.S., Ph.D., University of Wisconsin-Madison

Teter, W. David, Visiting Associate Professor of Engineering Graphics; B.S., M.S., West Virginia University

Zigiang, Wang, Visiting Professor of Electrical and Computer Engineering; M.E., Tsinghua University



## NEW FACULTY AND STAFF (Cont.)

College of Forest and Recreation Resources

Becker, Robert H., Director, Energy and Resource Development Institute, and Associate Professor of Recreation and Park Administration; B.S., The Pennsylvania State University; M.A., Ph.D., University of Maryland; 271 Lehotsky Hall

Howell, Richard L., Assistant Professor of Recreation and Park Administration; B.S., USAF Academy, Colorado; MURP, Virginia Commonwealth University; Calhoun Courts Apartments #24, Cochran Road

McGuire, Francis A., Assistant Professor of Recreation and Park Administration; A.B., Cornell University; M.S., The Pennsylvania State University; Ph.D., University of Illinois; Route 3, Box 202, Central 29630

Phillips, Douglas, Project Leader, Department of Forestry; B.S., M.F., North Carolina State University; 120 Lehotsky Hall

College of Industrial Management and Textile Science

Amacher, Ryan C., Dean of the College of Industrial Management and Textile Science and Professor of Economics; B.A., Ripon College; Ph.D., University of Virginia

Bowles, David C., Assistant Professor of Economics; B.A., Johns Hopkins University; M.A., Ph.D., Duke University

Boyett, Arthur S., Associate Professor of Accounting and Finance; B.S., M.A., University of Georgia; D.B.A., Texas Tech University

Bryan, Lewis E., Assistant Professor of Accounting and Finance; B.S., United States Naval Academy; M.S., D.B.A., George Washington University

Chappel, William F., Visiting Assistant Professor of Economics; B.A., Jacksonville State University; A.B.D., University of South Carolina

Davis, James R., Department Head and Professor of Accounting and Finance; B.B.A., M.P.A., Ph.D., Georgia State University

Ferreira, Eurico J., Assistant Professor of Accounting and Finance; B.S., Federal University of Rio de Janeiro; M.S., Catholic University of Rio de Janeiro

Hunter, Orren F., Sr., Assistant Professor of Textiles; B.S., Clemson University; M.S., Institute of Textile Technology

Klein, Richard H., Associate Professor of Accounting and Finance; B.A., City College of New York; M.B.A., Dartmouth College; Ph.D., The University of Texas at Austin

LaForge, Mary C., Assistant Professor of Industrial Management; B.S., M.B.A., Samford University; Ph.D., University of Georgia

LaForge, Robert L., Associate Professor of Industrial Management; B.S., Clemson University; M.B.A., Ph.D., University of Georgia

Manners, George E., Jr., Professor of Industrial Management; B.B.A., M.B.A., Ph.D., Georgia State University

Plewa, Franklin J., Jr., Assistant Professor of Accounting and Finance; B.B., West Illinois University; M.S., Ph.D., Louisiana State University

Uhimchuk, George, Assistant Professor of Economics; B.S., State University of New York at Brockport; M.S., Ph.D., Virginia Polytechnic Institute and State University

NEW FACULTY AND STAFF (Cont.)

College of Liberal Arts

Beck, Evelyn R., Instructor in English; B.A., M.A., Florida State University

Campbell, Roy D., Assistant Professor of English; B.A., Arkansas Polytechnic College; M.A., Kansas State College; M.F.A., Wichita State University; 503-A Old Central Road, Central 29630

Ceruzzi, Paul E., Assistant Professor of History; B.A., Yale University; M.A., Ph.D., University of Kansas

Dakutis, Peter J., Instructor in English; B.A., M.A., University of New Orleans

Fairbanks, Patricia D., Instructor in English; B.A., Northern Kentucky University; M.A., University of Cincinnati; 105 Jason Drive, Seneca 29678

Freeman, Lynn B., Visiting Instructor in English; B.A., University of South Carolina; M.A., Clemson University; 114 Knight Circle

Hochheimer, Laura, Associate Professor of Music; B.M.E., Eastman School of Music of the University of Rochester; M.F.A., Ohio University; Ph.D., Indiana University; Route 1, Box 140, Belton 29627

Judge, Lisa C., Visiting Instructor in English; B.A., M.A., University of Illinois

Kuehn, Thomas J., Assistant Professor of History; B.A., Carleton College; M.A., Ph.D., University of Chicago

Marcon, Rebecca A., Assistant Professor of Psychology; B.A., California State University; M.A., University of California; Ph.D., Louisiana State University; Apartment 43 Pendleton Place, Pendleton 29670

Plevin, Arlene M., Instructor in English; B.A., M.F.A., University of Iowa

Rash, Ronald V., Visiting Instructor in English; B.A., Gardner-Webb College; M.A., Clemson University

Reel, Mary K., Instructor in English; B.S., Louisiana State University; M.A., Clemson University; 7 Foy Creek

Strickland, George B., Visiting Instructor in Sociology; B.A., University of Saint Thomas; M.S., Saint Louis University; Route 3, Box 135, Briar Lane, Central 29630

Waller, Robert A., Dean of the College of Liberal Arts and Professor of History; B.A., Lake Forest College; M.A., Ph.D., University of Illinois; 110 Strode Circle

College of Nursing

Schwartz, Carol Y., Assistant Professor of Nursing, Baccalaureate Degree Program; B.S., Nazareth College; M.S., Clemson University

Sellers, Patricia T., Instructor in Nursing, Baccalaureate Degree Program; B.S.N., College of St. Scholastica; M.N., University of South Carolina

Gulino, Claire K., Associate Professor of Nursing and Project Director for Nursing Center; B.S.N., M.A., New York University; Ed.D., Teachers College, Columbia University

Hughes, Robbie B., Instructor in Nursing, Baccalaureate Degree Program; B.S., Medical College of Georgia; M.S., Clemson University

## NEW FACULTY AND STAFF (Cont.)

College of Sciences

Allen, Keith R., Visiting Assistant Professor of Computer Science

Abramovitch, Forota A., Research Associate/Assistant Professor of Biochemistry; M.S., Technical University of Wroclaw (Poland); Ph.D., Clemson University

Baird, Scott R., Visiting Assistant Professor of Physics; B.A., Kenyon College; M.S., Ph.D., University of Washington

Benz, Stephen L., Visiting Assistant Professor of Computer Science

Cardegna, Peter A., Visiting Instructor in Physics; B.S., Loyola University; Ph.D., Clemson University

Delumyea, Richard G., Assistant Professor of Chemistry; B.S., Rochester Institute of Technology; M.S., Ph.D., Wayne State University

Jeyaraman, R., Research Associate/Assistant Professor of Chemistry

Konieczny, Marek T., Research Associate/Assistant Professor of Chemistry

Kyle, Thomas G., Visiting Assistant Professor of Physics; B.S., M.S., University of Oklahoma; Ph.D., University of Denver

Ooi, H. C., Research Associate/Assistant Professor of Chemistry

Ruminski, Ronald R., Research Associate/Assistant Professor of Chemistry; B.S., M.A., M.S., Ph.D., University of New Mexico

Rusek, Grzegorz, Research Associate/Assistant Professor of Chemistry

Sane, Robert N., Visiting Instructor in Physics; B.A., Appalachian State University; M.S., North Carolina State University; Ph.D., Clemson University

Sprague, Alan P., Visiting Assistant Professor of Computer Science

Weerasinghe, D. D., Research Associate/Assistant Professor of Chemistry

Robert Muldrow Cooper Library

Boykin, Joseph F., Jr., Director of the Library; B.S., M.L.S., Florida State University

Krug, Ruth A., Cataloger; B.A., St. Lawrence University; M.L.S., State University of New York at Albany

President's Office

Amstutz, Margaret L., Legal Secretary II; 108 Dogwood Drive

Cone, Andrew W., Administrative Assistant III; Route 2, Central 29630

Administrative Programming Services:

Bethany, Peter M., Programmer Analyst; B.A., Clemson University

Cox, Janis F., Programmer Analyst; B.S., Clemson University

Lentz, Patrick J., Computer Programmer III; B.S., Georgia Southern College

Sorrells, Michael S., Computer Programmer III; B.A., Central Wesleyan College

Alumni Center:

Christenberry, Robert E., Director of Deferred Giving and Estate Planning; B.S., Clemson University; 221 Wyatt Avenue, P.O. Box 221

Fowler, Donald E., Director of Annual Giving; B.S., Clemson University; 115 Knight Circle, P.O. Box 289



NEW FACULTY AND STAFF (Cont.)

Computer Center:

Bender, Richard, Systems Programmer I

Division of Information Systems Development:

Bate, James A., Manager/Lecturer; Ph.D., Clemson University

Frevert, Brenda L., Systems Analyst I; B.S., Berry College

Henderson, Richard A., Systems Analyst I; M.S., Clemson University

Pruitt, Kenneth B., Systems Supervisor; M.S., Clemson University

Business and Finance

Administrative Data Processing:

Barnes, Hollis, Key and Peripheral Operator II; Associate Degree, Business, Tri-County TEC

Facilitating Services:

Brock, Crayton R., Director of Laundry Services

Sanders, Linda J., Administrative Assistant, Auxiliary Services

Financial Management:

Hallums, W. C., Jr., Accounting Technician; B.A., Business Administration, Central Wesleyan College

Lee, Mary P., Clerk Steno II, Payroll and Insurance; Diploma, Accounting, Forrest College

Parham, Kaye D., Staff Assistant II, Payroll and Insurance

Prince, Shawna L., Clerk Steno II; Diploma, Secretarial Sciences, Athens TEC

Sapp, Dawn, Cashier II; B.A., Psychology, Clemson University

Whitmire, Susan, Cashier II; B.A., Business Administration, Central Wesleyan College

Information and Public Services

Brown, Marion, Area Extension Editor, Pee Dee Experiment Station, Florence; B.A., University of South Carolina; 114 Moore Street, Bennettsville

McKenzie, Jack A., Internal Communications Editor; B.A., Clemson University; 14-C Keys Manor Apartments

Sams, Catherine T., Associate Experiment Station Editor; B.A., University of South Carolina; 1903 Dobbins Avenue, Anderson 29621

Shealey, Thomas H., Experiment Station Editor; B.A., University of South Carolina; P.O. Box G, Six Mile 29682

Strong, William E., Graphics Supervisor; A.S., Art Institute of Fort Lauderdale; Route 6, Fernleaf Drive, Travelers Rest 29690

Division of Student Affairs

Ervin, Deborah G., Admissions Counselor, Undergraduate Admissions; B.A., Berea College



## NEW FACULTY AND STAFF (Cont.)

Division of Student Affairs (Continued)

Harkins, Roderick A., Assistant Director of Bands, Music; B.M.E., M.M., University of South Carolina

Harper, Thomas F., Assistant Football Coach, Athletics; B.S., University of Kentucky

Herrin, Leslie C., Assistant Football Coach, Athletics; B.S., Western Carolina University

Hobbs, Wanda G., Assistant Housing Area Coordinator, Housing Office; B.S., Tennessee Tech.

Mandicott, Frank, Assistant Director of Financial Aid, Admissions and Registration; B.S., State University of New York at Geneseo

Watkins, Matthew J., Assistant Housing Area Coordinator, Housing Office; B.S., Clemson University

White, Joseph R., Jr., Academic Advisor, Student Affairs; B.S., Campbell College

Graduate School

Courtney, Ms. Jerry J., Clerk III; 823 Warley Circle, Pendleton 29670

# THIS WEEK AT CU

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August 17-23

## WORKSHOPS

- 18 "Professional Development for Secretaries." Sponsored by Professional Development; call 656-2200 for more information.
- 18-20 "Technical and Business Writing." Presented by Continuing Engineering Education; call 656-3308 for more information.
- 19-20 "Manager II: Beyond the Basics." Sponsored by Professional Development; call 656-2200 for more information.

## FILMS

- 19 "FM." Sponsored by University Union; 9 p.m., Union Plaza. If rain, film will be shown in senate chamber.
- 21 "Animal House." Sponsored by University Union; YMCA Theater, 7, 9:30 p.m., midnight. \$1 admission charge with University ID.
- 23 "Our Winning Season." Sponsored by University Union; YMCA Theater, 8 p.m., free.

## ENTERTAINMENT

- 17-21 Videotape: "Paul Simon." Sponsored by University Union; loggia, shown on request.
- 17-22 Edgar's Happy Hour, all week from 2 p.m. - closing. Sponsored by University Union.
- 20 Outdoor Dance. Sponsored by University Union; Union Plaza, 9-12 p.m., free. Details at the Information Desk.
- 21-22 Live Entertainment, sponsored by University Union; Edgar's, 9 p.m.

## EXHIBITS

- 20-22 Travel Center display. Sponsored by University Union; Union Gallery, loggia.
- 23-30 Display by Marge Edie. Sponsored by University Union; Union Gallery, loggia.

August 17-23

GENERAL NOTES

- 17 New faculty and staff orientation, a one day program to help new faculty and staff become familiar with the historical, teaching, research, and working environment at the University. Sponsored by the Provost's Office; Lee Hall auditorium, 8 a.m. - 5 p.m.
- 18 General faculty and staff meeting. Littlejohn Coliseum, 10:30 a.m.
- 19 Registration, all students.
- 20 Trip to Carowinds. Sponsored by University Union; sign up and details at Union Information Desk, loggia. \$12 fee includes ticket and transportation.
- 20 Late registration.
- 23 Tubing trip on the Chatooga River. Sponsored by University Union; sign up and details at Union Information Desk, loggia. Cost is \$4.50.
- 23-24 Auditions for "The Diviners," Daniel Auditorium, 7:30 p.m.







